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1988 STATISTICS of PAPER PAPERBOARD & WOOD PULP

DATA THROUGH 1987

AMERICAN PAPER INSTITUTE
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F O R E W O R D

We are pleased to present the twenty-sixth edition of the American Paper Institute's **Statistics of Paper, Paperboard and Wood Pulp.**

The Statistics of Paper, Paperboard and Wood Pulp is designed to present an up-to-date comprehensive statistical compendium of annual data on the paper, paperboard and wood pulp industries, together with selected data on the entire paper and allied products industry group.

In addition to the statistics on production, imports, exports, consumption, finances, prices, employment and wage rates, this report compares paper and paperboard new supply by major grades with total economic activity as measured by the real Gross National Product.

The tables are grouped into four functional groupings: production and related data; regional data; input data and financial data. There also is a supplement showing Bureau of the Census data on construction paper and board and wet machine board, and the import and export data used to calculate the paper and paperboard new supply data shown on Table X.

There are continuous changes taking place in the coding and structure of the paper industry. This report includes all such changes available as of mid-1988. The specific changes are noted in the descriptions and explanation of the tables that precede each section.

We welcome any comments or suggestions you may have and hope you will find this report useful.

Richard E. Storat
Vice-President
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SECTION I

PRODUCTION AND RELATED DATA

Highlights of 1987

The U.S. paper, paperboard and wood pulp industry continued to outpace the trend of total economic activity during 1987. Both total paper and paperboard production, at 74,429,000 tons, and total new supply (production plus imports less exports), at 81,760,000 tons were 5.0% above their respective 1986 levels. The real gross national product (real GNP) rose 3.4% (see Table 1A).

The decline in the value of the U.S. dollar during 1987 had a strong positive impact on paper and paperboard demand. Exports of paper, paperboard and products, for example, rose 13%, to a record-high 5,197,000 tons. Although total imports increased, the gains were largely concentrated in those grades where imports are usually a significant part of total new supply. Otherwise, as in uncoated free sheet and tissue papers, imports declined.

The value of the dollar also had an indirect impact on demand as the increase in exports of packaged goods increased the total demand for industry products including paper and paperboard packaging and shipping container products.

The major gains in demand continued to be in the printing-writing and containerboard grades. Total shipments of the printing-writing grades rose by 5.7% in 1987, reflecting demand increases in all their major markets. Steepest growth among these grades was the 9.5% increase in shipments of coated papers.

Production of containerboard for domestic use rose 7.5% in 1987, while total production of unbleached kraft linerboard increased 7.8%. Shipments of corrugated shipping containers reached a record-high 298 billion square feet, 4.9% above their 1986 high. Inventories of containerboard at paperboard mills and boxplants were 6.0 weeks of supply at the end of 1987, basically unchanged from the 5.9 weeks of supply one year earlier.

Tables

The tables in this section present detailed data on production, imports, exports, new supply, capacity and value of shipments of paper and paperboard, together with analyses of demand for these products relative to real GNP. A table on wood pulp capacity is also included in this section.

The data on production of paper and paperboard presented in Tables II through VII have been revised for the years 1968-1986 as a result of a shift of 10-25,000 tons per year from solid bleached paperboard to bleached bristols because of a reclassification of data.

TABLE I

PAPER AND BOARD

(Includes Wet Machine Board and Construction Grades)

PRODUCTION, IMPORTS, EXPORTS AND NEW SUPPLY

1899 - 1987

YEAR	Production	Imports (Inc. Products)	Exports	New Supply*	Population Millions	Per Capita New Supply --lbs.--	Real Gross National Product $Bil.1982 Prices	Ratio of New Supply to Real GNP 000Tons/Bil.$
	(Thousand Tons)							
1899	2,168	-	-	2,168	74.9	57.9	-	-
1919	5,966	708	421	6,253	105.1	119.0	-	-
1929	11,140	2,534	262	13,412	121.8	220.2	709.6	18.9
1934	9,187	2,265	163	11,289	126.5	178.5	536.7	21.0
1939	13,510	2,687	249	15,948	131.0	243.5	716.6	22.3
1944	17,183	2,576	314	19,445	138.9	280.0	1,330.6	14.6
1947	20,800	4,121	460	24,461	144.7	338.1	1,066.7	22.9
1948	21,532	4,582	377	25,737	147.2	349.7	1,108.7	23.2
1949	20,098	4,752	367	24,483	149.7	327.1	1,109.0	22.1
1950	23,992	5,006	364	28,634	152.2	376.3	1,203.7	23.8
1951	25,699	5,143	631	30,211	154.8	390.3	1,328.2	22.8
1952	24,008	5,190	584	28,614	157.5	363.4	1,380.0	20.7
1953	26,182	5,229	471	30,940	160.1	386.5	1,435.3	21.6
1954	26,411	5,165	682	30,894	163.0	379.1	1,416.2	21.8
1955	29,649	5,346	839	34,156	165.9	411.8	1,494.9	22.9
1956	30,901	5,780	775	35,906	168.9	425.2	1,525.6	23.5
1957	30,097	5,410	863	34,644	171.9	403.1	1,551.1	22.3
1958	30,214	5,092	847	34,459	174.8	394.3	1,539.2	22.4
1959	33,748	5,517	906	38,359	177.8	431.4	1,629.1	23.6
1960	33,904	5,633	1,020	38,517	180.7	426.3	1,665.3	23.1
1961	35,178	5,678	1,210	39,646	183.7	431.6	1,708.7	23.2
1962	37,062	5,740	1,187	41,615	186.5	446.3	1,799.4	23.1
1963	38,647	5,669	1,333	42,983	189.2	454.4	1,873.3	23.0
1964	40,962	6,209	1,694	45,477	191.9	474.0	1,973.3	23.1
1965	43,455	6,585	1,770	48,270	194.3	496.9	2,087.6	23.1
1966	46,702	7,358	1,942	52,118	196.6	530.2	2,208.3	23.6
1967	46,568	6,952	2,085	51,435	198.7	517.7	2,271.4	22.6
1968	50,134	6,842	2,625	54,351	200.7	541.6	2,365.6	23.0
1969	52,914	7,258	2,749	57,423	202.7	566.6	2,423.3	23.7
1970	51,670	7,115	2,817	55,968	205.1	545.8	2,416.7	23.2
1971	53,162	7,406	3,118	57,450	207.7	553.2	2,484.8	23.1
1972	57,433	7,676	3,069	62,040	209.9	591.1	2,608.5	23.8
1973	59,900	8,131	3,027	65,004	211.9	613.5	2,744.1	23.7
1974	59,040	8,065	3,797	63,308	213.9	591.9	2,729.3	23.2
1975	50,976	6,253	3,116	54,113	216.0	501.0	2,695.0	20.1
1976	58,329	7,142	3,456	62,015	218.0	568.9	2,826.7	21.9
1977	60,040	7,432	3,230	64,242	220.2	583.4	2,958.6	21.7
1978	62,047	9,113	3,373	67,787	222.6	609.0	3,115.2	21.8
1979	64,345	9,123	3,672	69,796	225.1	620.1	3,192.3	21.9
1980R	63,600	8,780	5,214	67,166	227.8	589.7	3,187.2	21.1
1981	64,259	8,339	4,641	67,957	230.1	590.7	3,248.7	20.9
1982R	60,958**	8,024	4,246	64,736	232.5	556.9	3,166.0	20.5
1983R	66,761**	8,986	4,569	71,178	234.8	606.3	3,279.1	21.7
1984R	70,268**	11,075	4,387	76,956	237.0	649.4	3,501.4	22.0
1985R	68,658**	11,522	4,071	76,109	239.3	636.1	3,618.7	21.0
1986	72,489**	11,936	4,687	79,738	241.6	660.1	3,721.7	21.4
1987	76,029**	12,837	5,304	83,562	243.9	685.2	3,847.0	21.7

SOURCE: Production 1899-1958 - Department of Commerce, Bureau of the Census
Production 1959-1987 - American Paper Institute
Imports and Exports - Department of Commerce, Bureau of the Census
Population - Department of Commerce, Bureau of the Census
Real Gross National Product - Department of Commerce, Bureau of Economic Analysis
All calculations by American Paper Institute

NOTE: Production, Imports and Exports 1899-1944 includes Hard Pressed Board.
Population data include Armed Forces overseas.
R - Revised P - Preliminary

* New Supply = Production plus Imports less Exports; includes imports and exports of products.

** Includes API estimate for construction and wet machine board grades: 1982 - 1,662,000 tons; 1983 - 1,800,000 tons; 1984 - 1,800,000 tons; 1985 - 1,700,000 tons; 1986 - 1,600,000 tons; 1987 - 1,600,000 tons. (See Table X, XXXIII & XXXIV.)

Chart 1

PAPER AND PAPERBOARD

(Including Wet Machine Board & Construction Grades)

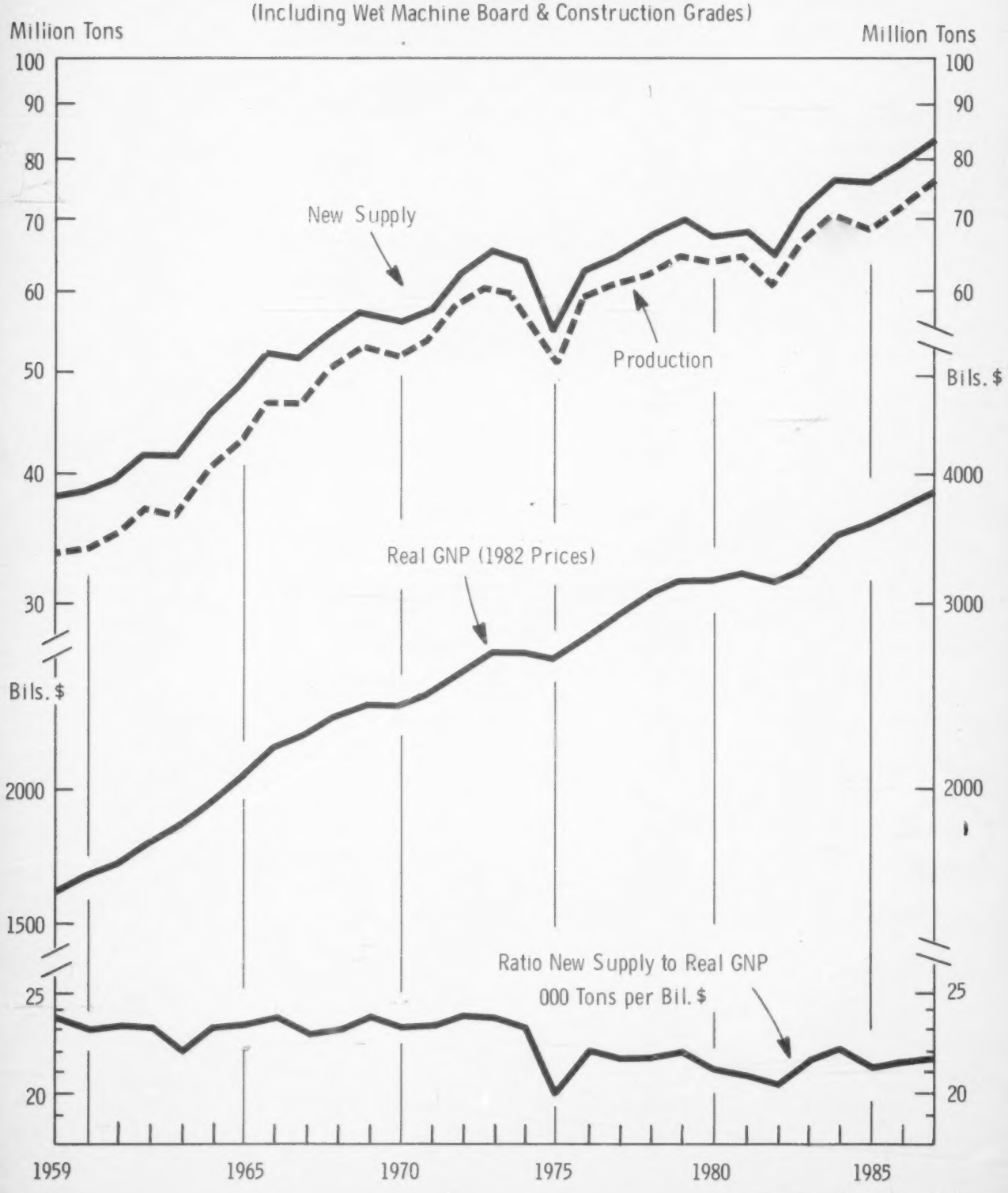

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TABLE IA

PAPER PLUS PAPERBOARD

PRODUCTION, IMPORTS, EXPORTS AND NEW SUPPLY

1959 - 1987

YEAR	Production	Imports	Exports	New Supply*	Real Gross National Product $ Bil. 1982 Prices	Ratio New Supply to Real GNP 000 Tons/$ Bil.
	Thousand Tons					
1959	30,997	5,484	874	35,607	1,629.1	21.86
1960	31,221	5,611	990	35,842	1,665.3	21.52
1961	32,548	5,663	1,174	37,037	1,708.7	21.68
1962	34,407	5,719	1,154	38,972	1,799.4	21.66
1963	35,914	5,637	1,302	40,249	1,873.3	21.49
1964	38,066	6,154	1,660	42,560	1,973.3	21.57
1965	40,489	6,545	1,737	45,297	2,087.6	21.70
1966	43,904	7,327	1,904	49,327	2,208.3	22.34
1967	43,745	6,917	2,054	48,608	2,271.4	21.40
1968	47,071	6,793	2,587	51,277	2,365.6	21.68
1969	49,810	7,209	2,703	54,316	2,423.3	22.41
1970	48,719	7,057	2,779	52,997	2,416.7	21.93
1971	49,742	7,319	3,076	53,985	2,484.8	21.73
1972	53,842	7,567	3,020	58,389	2,608.5	22.38
1973	56,346	8,019	2,966	61,399	2,744.1	22.37
1974	55,756	7,970	3,720	60,006	2,729.3	21.99
1975	47,997	6,164	3,050	51,111	2,695.0	18.96
1976R	54,993	7,042	3,388	58,647	2,826.7	20.75
1977	56,656	7,294	3,171	60,779	2,958.6	20.54
1978	58,571	8,781	3,301	64,050	3,115.2	20.56
1979	61,071	8,738	3,610	66,199	3,192.4	20.74
1980R	61,042	8,304	5,148	64,198	3,187.1	20.14
1981	62,109	7,941	4,561	65,489	3,248.7	20.16
1982R	59,296	7,603	4,187	62,712	3,166.0	19.81
1983R	64,961	8,509	4,502	68,368	3,279.1	21.03
1984	68,468	10,576	4,310	74,734	3,501.4	21.34
1985R	66,958	11,105	4,003	74,060	3,618.7	20.47
1986R	70,889	11,597	4,593	77,893	3,721.7	20.93
1987	74,429	12,528	5,197	81,760	3,847.0	21.25

SOURCE: See Table I
NOTE: All data exclude wet machine board, building paper and insulating board.
* - New Supply = Production plus imports less exports; includes imports and exports of products.
R - Revised
P - Preliminary

Chart 1A

PAPER AND PAPERBOARD

(Excluding Wet Machine Board & Construction Grades)

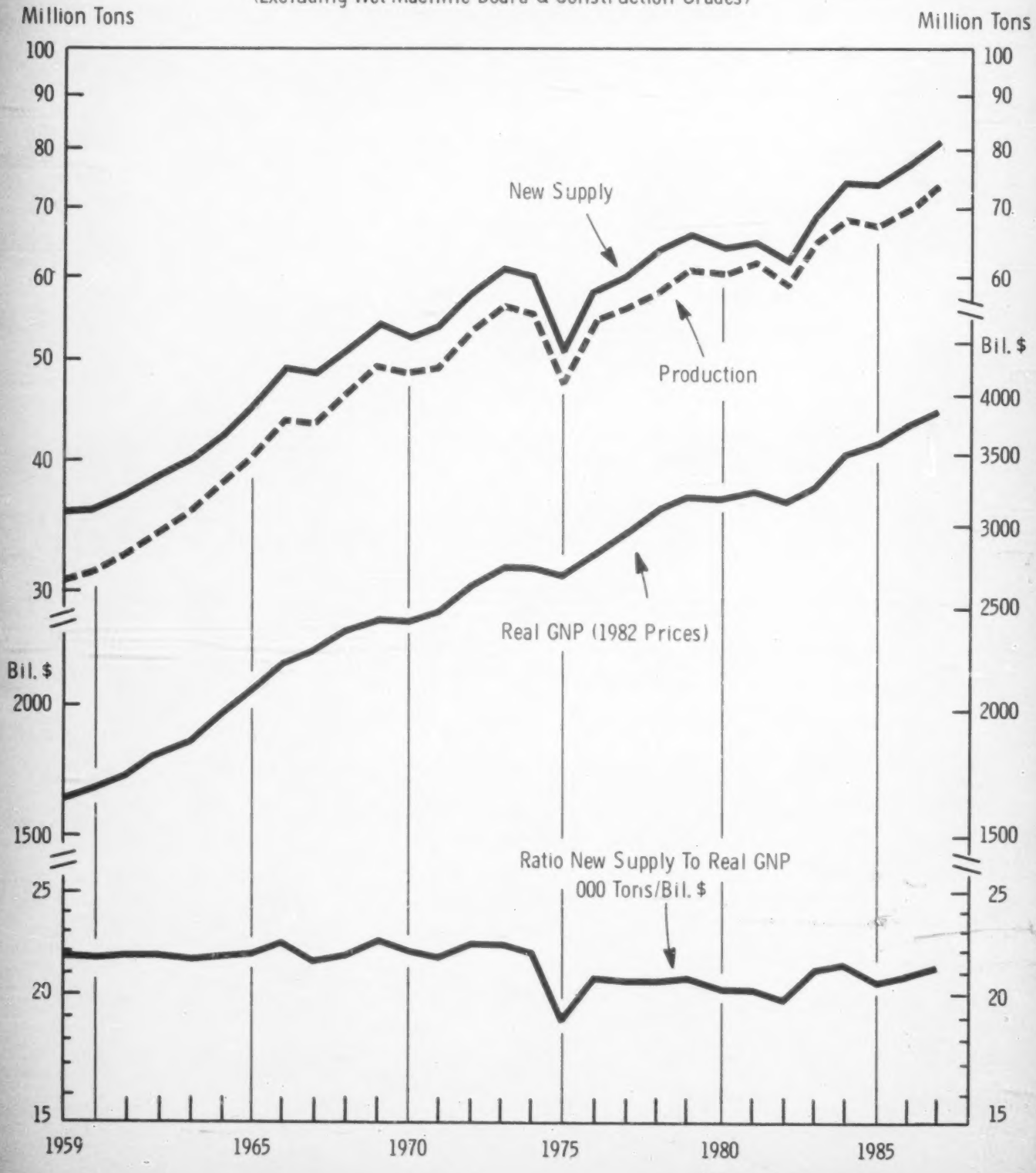

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TABLE II

TOTAL PAPER SHIPMENTS

1960 - 1987

(Thousands of Tons)

	1960	1961	1962	1963	1964	1965	1966
TOTAL PAPER, ALL GRADES	15,294.6	15,821.1	16,560.4	17,319.5	18,111.7	19,157.0	20,724.9
Newsprint Production	2,038.0	2,094.0	2,153.9	2,218.0	2,261.0	2,245.0	2,483.0
Total Printing-Writing Papers	7,120.6	7,369.9	7,803.7	8,183.5	8,667.9	9,337.5	10,318.4
Uncoated Groundwood	929.0	907.3	909.7	956.4	995.4	974.0	1,088.3
Publishing and Printing	746.8	746.2	755.0	806.7	837.2	814.0	876.4
Converting	182.2	161.1	154.7	149.7	158.2	160.0	211.9
Coated Papers	2,122.3	2,159.3	2,290.5	2,425.2	2,608.3	2,814.2	3,087.6
Uncoated Free Sheet Papers	3,112.5	3,270.1	3,458.3	3,634.1	3,847.5	4,216.0	4,691.9
Bond and Writing	371.8	407.0	457.3	470.0	499.2	555.9	620.8
Form Bond	260.0	300.0	345.0	375.0	420.0	490.0	575.0
Ledger	42.6	43.5	45.9	45.1	43.0	46.6	49.1
Mimeograph	102.1	110.0	113.3	110.9	116.5	117.3	125.4
Duplicating	93.6	106.0	111.5	116.0	117.3	125.6	134.9
Manifold	25.8	24.3	22.9	17.4	15.5	19.9	20.2
Papeterie and Wedding	49.9	44.7	49.3	42.9	45.2	45.5	51.7
Carbonless	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
. Opaque Circular	30.1	28.8	26.5	27.3	20.6	22.9	23.8
Other	190.3	215.3	229.8	247.6	261.0	302.2	N.A.
Cover and Text Papers	133 1	142.1	153.8	155.4	168.1	186.0	194.1
M.F., E.F. & Super Calendered	437.4	346.6	274.2	264.1	240.1	219.3	228.2
Offset	622.5	679.3	765.1	862.3	948.5	1,062.4	1,221.9
White Wove Envelope	267.3	280.0	310.6	318.8	357.3	392.4	412.8
Tablet	221.5	249.9	250.3	281.5	293.7	304.4	346.3
Kraft Envelope Papers: Total	157.7	164.1	175.3	175.2	172.0	194.0	203.7
Brown Kraft - Estimated	75.0	80.0	85.0	85.0	80.0	67.0E	68.1E
Bleached Kraft - Estimated	82.7	84.1	90.3	90.2	92.0	127.0E	135.6E
Other	106.7	128.5	127.5	124.6	129.5	433.8	484.0
Thin Papers	148.1	153.9	183.7	178.7	192.7	211.3	245.4
Cotton Fiber Papers	115.0	118.6	118.0	118.8	117.8	122.3	126.3
Bond and Writing	66.4	69.4	68.8	70.8	72.1	74.8	78.7
Other Business	29.9	30.4	30.5	29.7	28.0	29.0	28.8
Technical and Other	18.7	18.8	18.7	18.3	17.7	18.5	18.8
Bleached Bristols	693.7	760.7	843.5	870.3	906.2	999.7	1,078.9
Tabulating Index	298.2	342.9	393.7	395.5	419.4	478.6	514.4
Tag	143.1	149.5	154.6	164.7	171.5	194.9	196.9
File Folder	42.9	39.2	51.2	58.9	59.6	64.0	71.4
Index Bristol	92.4	94.2	97.6	98.0	97.4	100.6	115.0
Printing Bristol	19.9	21.7	22.3	22.3	22.4	23.4	26.5
Postcard	16.5	18.7	18.6	13.7	10.4	8.8	10.3
Coated Bristol	80.7	94.5	105.5	117.2	125.5	129.4	144.4
Total Packaging and Industrial Papers	3,934.6	4,045.0	4,188.6	4,341.6	4,436.1	4,683.9	4,823.7
Unbleached Kraft, Bleached Packaging, Glassine, Greaseproof & Vegetable Parchment	3,651.4	3,733.0	3,880.6	4,027.2	4,091.7	4,319.1	4,430.1
Unbleached Kraft Papers	2,738.7	2,779.7	2,890.9	3,051.4	3,098.4	3,293.1	3,414.4
Wrapping	329.6	343.2	339.2	354.6	352.2	358.9	370.0
Bag and Sack (Exc. Shipping Sack)	1,127.2	1,135.1	1,231.0	1,270.2	1,326.2	1,447.7	1,548.1
Shipping Sack	786.7	795.9	797.8	880.7	865.9	894.9	884.7
Other Converting	495.2	505.5	522.9	545.9	554.1	591.6	611.6
Bleached Packaging Papers (Census)	735.5	769.1	799.0	782.0	797.4	825.4	801.1
Wrapping	215.0	196.3	204.3	191.4	191.7	207.4	208.4
Bag and Sack (Exc. Shipping Sack)	102.6	121.7	134.5	130.4	138.5	163.1	171.6
Shipping Sack	59.3	61.4	59.8	67.0	75.2	72.0	73.7
Other Converting 1/	358.6	389.7	400.4	393.2	392.0	382.9	347.4
Glassine, Grsprf. and Veg. Parch. (Cen	177.2	184.2	190.7	193.8	195.9	200.6	214.6
Special Industrial Papers (Census)	283.2	312.0	308.0	314.4	344.4	364.8	393.6
Total Tissue Papers (Census)	2,201.4	2,312.2	2,414.2	2,576.4	2,746.7	2,890.6C	3,099.8C
Total Sanitary Tissue Stock	1,963.6	2,078.0	2,178.9	2,340.4	2,515.7	2,651.4	2,847.5
Toilet Tissue	878.0	936.1	985.4	1,054.6	1,107.2	1,120.9	1,169.9
Facial Tissue Stock	254.2	262.0	261.8	278.4	327.4	327.2	337.5
Napkin Stock	238.1	246.6	249.5	261.3	266.1	287.3	332.8
Towelling*	516.2	558.9	604.5	662.9	723.1	816.4	897.7
Wiper Stock*	25.7	26.5	31.9	33.1	38.4	40.1	49.1
Other Sanitary Tissue*	51.3	47.7	45.8	50.0	53.5	59.5	60.5
Total All Other Tissue	237.8	234.3	235.3	236.0	231.0	239.2	252.3

1/ Excludes Bleached Kraft Envelope Paper * Revised slightly by API

NOTE (Census): Current Industrial Reports, Pulp, Paper and Board C - Bureau of the Census data

TABLE II (Cont.)

TOTAL PAPER SHIPMENTS

1960 - 1987

(Thousands of Tons)

	1967	1968	1969	1970	1971	1972	1973
TOTAL PAPER, ALL GRADES	20,925.6	22,181.3RS	23,448.7	23,351.1	23,722.1	25,358.8	26,797.2
Newsprint Production	2,709.0	3,045.0	3,362.0	3,464.0	3,476.0	3,656.0	3,738.0
Total Printing-Writing Papers 2/	10,121.9	10,481.5	11,139.1	10,903.9	11,132.1	12,194.5	13,371.2
Uncoated Groundwood	1,019.6	1,090.3	1,094.9	1,084.6	1,089.2	1,126.0	1,180.9
Publishing and Printing	806.4	883.3	914.0	924.4	929.0	950.9	985.1
Converting	213.2	207.0	180.9	160.2	160.2	175.1	195.8
Coated Papers	3,086.4	3,100.5RS	3,306.4	3,239.2	3,191.9	3,483.2	3,779.1
Uncoated Free Sheet Papers 2/	4,577.0	4,787.7	5,182.9	5,090.4	5,350.9	5,953.2	6,673.6
Bond and Writing	613.9	627.1	718.0	698.6	761.5	889.6	1,075.0
Form Bond 2/	600.0	570.9	688.7	722.1	787.1	913.0	1,119.9
Ledger	47.5	54.6	51.1	48.2	51.5	53.9	62.0
Mimeograph 2/	122.7	134.9	132.6	126.4	125.5	128.2	143.3
Duplicating	141.9	160.9	172.5	165.6	162.9	171.4	182.4
Manifold	17.2	14.0	11.0	9.8	10.7	11.8	12.7
Papeterie and Wedding	51.7	56.0	59.9	53.9	51.9	51.1	57.3
Carbonless	N.A.	50.0	65.0	80.0	90.0	105.0	120.0
Opaque Circular	24.6	23.3	25.0	23.6	24.5	26.2	33.6
Cover and Text Papers	192.2	192.8	200.1	193.2	181.0	194.4	219.5
M.F., E.F. & Super Calendered	209.9	198.2	214.3	162.1	147.6	128.6	154.6
Offset	1,165.3	1,295.4	1,381.5	1,384.0	1,467.9	1,688.0	1,862.5
White Wove Envelope	423.0	459.6	461.2	466.1	467.6	527.0	570.9
Tablet	294.6	313.0	320.9	342.4	401.3	396.5	305.5
Kraft Envelope Papers: Total	188.5	186.6	208.8	189.6	176.9	189.5	214.0
Brown Kraft	92.9E	91.4E	102.9	95.7	93.7	93.2	106.7
Bleached Kraft	95.6E	95.2E	105.9	93.9	83.2	96.3	107.3
Other 2/	484.0	450.4	472.3	424.8	443.0	479.0	540.4
Thin Papers	238.0	261.6	289.0	287.9	292.3	333.2	358.2
Cotton Fiber Papers	124.8	124.0	128.1	115.4	112.8	119.1	123.7
Bond and Writing	74.8	80.5	85.3	76.5	75.7	81.1	85.5
Other Business	30.1	25.2	24.7	23.4	21.1	22.2	22.8
Technical and Other	19.9	18.3	18.1	15.5	16.0	15.8	15.4
Bleached Bristols	1,076.1	1,117.4	1,137.8	1,096.4	1,095.0	1,179.8	1,255.7
Tabulating Index	533.2	534.6	558.7	499.6	458.3	465.0	491.2
Tag	187.4	203.7	193.5	184.3	193.5	217.1	220.3
File Folder	71.0	77.8	76.5	72.0	80.9	88.3	87.1
Index Bristol	105.5	104.4	100.4	102.3	106.1	120.9	130.9
Printing Bristol	24.6	24.0	28.4	32.0	32.9	39.2	46.9
Postcard	8.5	5.2	6.8	6.7	6.7	5.7	3.1
Coated Bristol	145.9	167.7	173.5	189.5	216.6	243.6	276.2
Total Packaging and Industrial Papers	4,865.8	5,198.9	5,336.8	5,264.8	5,281.4	5,531.7	5,649.2
Unbleached Kraft, Bleached Packaging, Glassine, Greaseproof & Vegetable Parchment	4,479.3	4,753.1	4,861.8	4,809.7	4,807.1	4,986.9	4,999.1
Unbleached Kraft Papers	3,391.9	3,602.5	3,670.2	3,672.4	3,649.2	3,810.9	3,901.6
Wrapping	334.7	353.5	327.7	296.4	280.3	282.5	272.3
Bag and Sack (Exc. Shipping Sack)	1,631.3	1,713.0	1,797.9	1,927.4	1,929.3	2,014.5	2,006.2
Shipping Sack	902.5	978.8	983.5	953.3	930.4	935.7	1,025.8
Other Converting	523.4	557.2	561.1	495.3	509.2	578.2	597.3
Bleached Packaging Papers (Census)	891.3	942.9	975.2	934.0	952.1	942.0	867.0
Wrapping	217.7	210.5	229.3	219.6	205.7	204.4	158.1
Bag and Sack (Exc. Shipping Sack)	185.5	207.8	227.3	218.6	234.7	240.8	254.2
Shipping Sack	89.1	88.7	99.8	97.9	101.9	105.1	104.4
Other Converting 1/	398.9	435.8	418.7	397.9	409.8	391.7	350.4
Glassine, Grspf. and Veg. Parch. (Census)	196.1	207.7	216.4	203.3	205.8	234.0	230.5
Special Industrial Papers (Census)	386.5	445.8	475.0	455.1	474.3	544.8	650.1
Total Tissue Papers	3,228.9	3,455.9	3,610.8	3,718.4	3,832.6	3,976.6	4,038.8
Total Sanitary Tissue Stock	2,976.7	3,217.2	3,368.6	3,494.0	3,604.3	3,746.2	3,771.8
Toilet Tissue	1,171.0	1,273.1	1,274.7	1,323.1	1,376.2	1,398.7	1,440.5
Facial Tissue Stock	349.1	349.8	386.4	365.0	341.1	367.2	361.8
Napkin Stock	347.3	374.7	377.8	381.2	394.7	419.3	447.7
Towelling	987.8	1,077.7	1,136.9	1,168.1	1,183.7	1,249.4	1,276.4
Wiper Stock	48.9	50.3	58.8	55.8	54.9	59.4	61.3
Other Sanitary Tissue	72.8	91.5	134.1	200.8	253.8	252.2	184.1
Total All Other Tissue	252.1	238.7	242.2	224.5	228.3	230.5	267.0

E - Estimated 1/ Excludes Bleached Kraft Envelope Paper 2/ API data RS - Revised Series
NOTE (Census): Current Industrial Reports, Pulp, Paper and Board C - Bureau of the Census data

TABLE II (Cont.)

TOTAL PAPER SHIPMENTS

1960-1987

(Thousands of Tons)

	1974	1975	1976	1977	1978	1979	1980
TOTAL PAPER, ALL GRADES	26,862.7	23,260.1	26,577.4	27,721.2	28,319.6	29,666.2	30,116.3
Newsprint Production	3,561.0#	3,691.0	3,735.9	3,870.5	3,767.5	4,061.9	4,672.3
Total Printing-Writing Papers 6/	13,431.4	10,965.6	13,207.3	13,835.9	14,548.7	15,297.4	15,522.0
Uncoated Groundwood	1,192.4	1,127.2	1,320.6	1,359.7	1,354.4	1,509.0	1,498.8
Publishing and Printing	1,001.8	947.5	1,066.5	1,082.4	1,061.0	1,186.0	1,178.2
Converting	190.6	179.7	254.1	277.3	293.4	323.0	320.6
Coated Papers	3,775.8	3,155.4	3,933.1	4,210.3	4,399.9	4,472.3	4,621.6
Uncoated Free Sheet Papers 6/	6,755.3	5,328.3	6,452.8	6,748.8	7,202.0	7,817.1	7,984.2
Bond and Writing	1,332.6	1,017.3	1,278.9	1,353.5	1,424.7	1,578.3	1,789.7
Form Bond	1,161.5	950.1	1,164.4	1,208.3	1,330.5	1,449.3	1,491.6
Ledger	71.0	51.2	57.8	59.9	57.7	58.0	51.3
Mimeograph	128.8	96.2	100.8	92.3	91.9	85.6	90.9
Duplicating	178.4	123.6	136.0	147.0	149.5	153.3	173.6
Manifold	11.7	9.0	12.0	9.2	12.1	10.8	8.9
Papeterie and Wedding	47.3	34.2	47.5	43.6	49.2	56.4	46.2
Carbonless	160.0	140.0	190.0	225.0	250.0	300.0	338.8
Opaque Circular	38.1	26.6	32.8	32.7	39.6	N.A.	N.A.
Cover and Text Papers	213.1	156.2	175.3	189.1	212.1	243.1	238.2
M.F., E.F. & Super Calendered	128.1	66.5	69.3	66.1	69.5	85.9	78.7
Offset	1,838.7	1,462.5	1,781.4	1,889.5	1,920.2	2,155.2	2,071.2
White Wove Envelope	530.6	456.6	519.9	554.4	592.3	634.9	649.9
Tablet	167.5	229.3	299.6	285.4	350.4	320.1	323.1
Kraft Envelope Papers: Total	203.1	163.8	204.0	203.3	230.2	234.4	226.2
Brown Kraft	98.3	83.4	101.4	101.1	121.1	115.6	111.7
Bleached Kraft	104.8	80.4	102.6	102.2	109.1	118.8	114.5
Other	544.8	345.2	383.1	389.5	422.1	451.8	405.9RS
Thin Papers	371.8	310.8	348.4	338.7	351.7	371.4	333.0
Cotton Fiber Papers	117.0	94.5	104.2	108.5	114.4	124.6	126.3
Bond and Writing	82.2	67.6	75.8	80.2	84.4	93.1	95.2
Other Business	20.8	16.3	15.8	15.6	16.3	16.6	14.1
Technical and Other	14.0	10.6	12.6	12.7	13.7	14.9	17.0
Bleached Bristols	1,219.1	949.4	1,048.2	1,069.9	1,126.3	1,003.0	958.1
Tabulating Index	498.6	372.7	334.3	338.0	310.6	217.0	202.3
Tag	140.1	132.3	177.6	177.1	207.7	208.7	177.7
File Folder	66.9	86.0	92.0	99.3	112.3	127.6	114.0
Index Bristol	181.0	119.0	140.8	135.6	143.4	137.9	147.0
Printing Bristol	52.5	37.9	43.0	46.4	51.3	53.0	52.1
Postcard	0.2	1.3	1.4	1.3	0.6	0.2	0.4
Coated Bristol	279.8	200.2	259.1	272.2	300.4	258.6	264.6
Total Packaging and Industrial Papers	5,783.9	4,624.1	5,450.6	5, 29.6	5,788.6	5,786.4	5,483.5
Unbleached Kraft, Bleached Packaging, Glassine, Greaseproof & Veg. Parchment	5,132.6	4,138.4	4,824.0	5,151.2	5,237.6	5,196.8	4,961.0
Unbleached Kraft Papers	4,033.5RS	3,253.7	3,788.1	3,805.6	3,863.4	3,931.0	3,815.8
Wrapping	175.3RS	139.1	150.0	156.4	156.3	149.6	115.7
Bag and Sack (Exc. Shipping Sack)	2,130.5RS	1,924.6	2,106.2	2,099.7	2,224.5	2,225.8	2,269.4
Shipping Sack	1,187.2RS	838.4	1,004.2	1,035.0	990.3	1,085.8	1,033.3
Other Converting	540.5RS	351.6	527.7	514.5	492.3	469.8	397.4
Bleached Packaging Papers (Census)	858.6	693.5	828.7	1,127.0*	1,115.2*	1,031.9	943.5
Wrapping	143.1	115.3	126.4	136.1	154.2	118.9	102.6
Bag and Sack (Exc. Shipping Sack)	245.2	227.8	273.9	304.1	276.7	250.4	228.6
Shipping Sack	130.2	95.3	127.6	106.8	91.6	102.4	92.0
Other Converting 1/	340.1	255.1	300.8	580.0	592.7	560.2	520.3
Glassine, Grsprf. and Veg. Parch.	240.5	191.2	207.2	218.6	259.0	233.9	201.7
Special Industrial Papers 6/	651.3	485.7	626.6	578.4	551.0	589.6	522.5
Total Tissue Papers (Census)	4,086.4	3,979.4	4,183.6	4,285.2	4,214.8	4,520.5	4,438.5
Total Sanitary Tissue Stock	3,823.2	3,771.9	3,954.6	4,069.6	4,017.4	4,324.5	4,284.6
Toilet Tissue	1,466.1	1,520.1	1,608.9	1,660.2	1,643.2	1,742.4	1,685.0
Facial Tissue Stock	356.9	339.8	335.1	336.0	329.0	357.9	360.4
Napkin Stock	442.5	462.1	455.2	491.9	493.1	537.2	561.8
Towelling	1,333.2	1,248.5	1,323.2	1,353.4	1,317.6	1,404.0	1,392.4
Wiper Stock	45.3	37.0	46.4	43.8	44.8	58.8	58.0
Other Sanitary Tissue	179.2	164.6	185.9	184.3	189.6	224.2	227.0
Total All Other Tissue	263.2	207.5	228.9	216.0	197.4	196.0	153.9

NOTE (Census): Current Industrial Reports, Pulp, Paper and Board
1/ Excludes Bleached Kraft Envelope Paper 2/ API data 6/ Series revised from 1968 to present.
Basis weight change from 32 lb. to 30 lb.
* Data overstated by about 10% based on 1980 revision of 1979 data.
RS Revised Series

TABLE II (Cont.)

TOTAL PAPER SHIPMENTS

1960 - 1987

(Thousands of Tons)

	1981R	1982R	1983R	1984R	1985R	1986R	1987
TOTAL PAPER, ALL GRADES	30,900.7	30,251.8	32,815.5	34,465.5	34,035.7	35,510.0	36,990.0
Newsprint Production	5,238.6	5,041.9	5,167.0	5,538.8	5,427.7	5,630.2	5,842.6
Total Printing-Writing Papers 6/	15,694.3	15,574.9	17,364.7	18,420.1	18,463.0	19,667.8	20,779.7
Uncoated Groundwood	1,471.1	1,470.8	1,530.8	1,565.3	1,520.9	1,539.6	1,485.0
Publishing and Printing	1,113.1	1,123.1	1,187.9	1,252.2	1,229.8	1,212.9	1,197.7
Converting	358.0	347.7	342.9	313.1	291.1	326.7	287.3
Coated Papers	4,892.7	4,991.0	5,715.8	6,248.9	5,875.1	6,262.7	6,859.6
Uncoated Free Sheet Papers 6/	7,867.4	7,809.3	8,725.7	9,152.3	9,689.9	10,409.5	10,976.7
Bond and Writing	1,694.0	1,768.5	2,057.3	2,114.8	2,288.5	2,496.9	2,776.1
Form Bond	1,580.3	1,510.4	1,687.5	1,829.4	1,921.8	2,150.6	2,155.3
Ledger	49.9	48.9	51.4	50.6	50.3	50.4	50.6
Mimeograph	75.5	53.0	55.9	47.6	44.1	46.2	30.3
Duplicating	147.6	139.8	132.1	117.4	101.9	78.4	61.3
Manifold	4.0	3.1	2.9	2.3	2.0	1.3	1.4
Papeterie and Wedding	45.6	42.0	38.7	42.8	41.4	43.1	40.5
Carbonless 5/	375.2	378.7	400.0	443.4	495.8	541.3	599.2
Cover and Text Papers	243.3	235.1	276.0	299.5	288.9	310.0	329.1
M.F., E.F. & Super Calendered	77.3	68.7	87.5	79.2	77.4	83.5	74.5
Offset 4/	2,018.5	2,017.6	2,209.8	2,396.4	2,469.1	2,633.6	2,831.5
White Wove Envelope	638.3	638.7	715.1	773.7	789.3	867.1	916.2
Tablet	316.9	345.3	406.1	299.2	443.2	411.5	424.5
Kraft Envelope Papers: Total	221.5	207.8	230.7	237.4	234.7	254.1	255.9
Brown Kraft	111.0	102.2	114.2	113.8	125.4	132.5	131.8
Bleached Kraft	110.5	105.6	116.5	123.6	109.3	121.6	124.1
Other 6/	379.8	351.7	374.7	418.6	441.5	441.5	440.3
Thin Papers	353.4	297.0	292.4	303.4R	263.0R	270.7	251.4
Cotton Fiber Papers	125.6	120.2	132.7	147.2	144.1	152.0	162.8
Bond and Writing	95.3	94.8	105.9	119.4	117.4	125.4	136.1
Other Business	13.7	11.0	10.6	8.8	8.7	7.2	7.3
Technical and Other	16.6	14.4	16.2	19.0	18.0	19.4	19.4
Bleached Bristols R	984.1	886.6	967.3	1,003.0	970.0	1,033.3	1,044.2
Tabulating Index	152.8	123.2	106.7	67.6	70.0	60.0	50.0
Tag	194.3	168.9	190.9	196.7	177.8	186.6	188.1
File Folder	127.0	121.1	144.8	140.9	165.0	179.8	194.2
Index Bristol	143.4	133.4	140.9	146.5	146.5	147.7	145.0
Printing Bristol	51.1	49.6	55.4	56.6	57.4	59.7	62.6
Postcard	1.4	2.4	1.9	2.8	3.2	5.8	5.4
Coated Bristol	314.1	288.0	326.7	392.1	349.3	393.7	398.9
Total Packaging and Industrial Papers	5,450.3R	5,197.4	5,495.2	5,586.0	5,204.5	5,117.3	5,066.8
Unbleached Kraft and Bleached Packaging							
Glassine, Greaseproof & Veg. Parchment	4,620.72/	4,441.4	4,662.3	4,698.5	4,394.7	4,300.0	4,110.4
Unbleached Kraft Papers	3,732.7	3,562.9	3,665.53/	3,684.1	3,403.0	3,302.8	3,074.6
Wrapping	106.6	92.8	100.3	97.3	92.8	92.9	88.0
Bag and Sack (Exc. Shipping Sack)	2,209.2	2,210.9	2,288.8	2,292.1	2,116.5	2,050.1	1,770.5
Shipping Sack	1,014.6	895.1	878.9	883.3	796.8	747.4	784.9
Other Converting	402.3	364.1	397.5	411.4	396.9	412.4	431.2
Bleached Packaging Papers (Census)	436.1	438.6	489.0	513.4	487.4	487.0	479.7
Wrapping	47.32/	44.6	44.7	38.4	30.9	24.4	23.9
Bag and Sack (Exc. Shipping Sack)	217.12/	222.4	241.2	260.0	266.0	263.8	258.0
Shipping Sack	73.92/	77.9	88.3	90.1	80.1	84.4	98.0
Other Converting 1/	97.8	93.7	114.8	124.9	110.4	114.4	99.8
Specialty Packaging	451.9	439.9	507.8	501.0	504.3	510.2	556.1
Special Industrial Papers	829.6	756.0	832.9	887.5	809.8	817.3	956.4
Total Tissue Papers	4,517.5	4,437.6	4,788.6	4,920.6	4,940.5	5,094.6	5,300.9
Total Sanitary Tissue Stock	4,366.8	4,289.3	4,611.2	4,760.6	4,797.5	4,943.6	5,137.2
Toilet Tissue	1,714.0	1,748.2	1,835.2	1,851.6	1,882.4	1,905.6	1,930.0
Facial Tissue Stock	369.4	359.3	389.3	378.5	353.8	359.1	345.2
Napkin Stock	577.6	606.1	532.6	569.8	579.0	613.7	668.4
Towelling	1,415.3	1,334.1	1,577.2	1,670.8	1,700.4	1,768.1	1,850.2
Wiper Stock	77.5	50.8	N.A.	N.A.	N.A.	N.A.	N.A.
Other Sanitary Tissue	213.0	190.8	276.9	289.9	281.9	297.1	343.4
Total All Other Tissue	150.7	148.3	177.4	160.0	143.0	151.0	163.7

1/ Excludes Bleached Kraft Envelope Paper 2/ API data series R - Revised P - Preliminary
3/ Data after 1983 may not be fully comparable to earlier data because of changes in procedures in calculating the total industry shipments. 4/ Opaque circular paper included in offset from 1979 to present. 5/ Includes base stock
6/ Series revised from 1968 to present.
NOTE (Census): Current Industrial Report, Pulp, Paper and Board
N.A. - Not Available

TABLE III

PAPERBOARD PRODUCTION 1955-1987

BY END USE

TONS	PAPERBOARD	CONTAINERBOARD-DOMESTIC USE			
YEAR	TOTAL	Total	Linerboard	Corrugating Material	Chip and Filler Boards
1955	14,043,700	7,244,200	4,789,600	2,165,100	289,200
1956	14,371,600	7,451,300	4,933,400	2,249,500	268,400
1957	14,181,900	7,337,200	4,869,700	2,215,600	251,900
1958	14,237,000	7,259,200	4,818,900	2,191,300	249,000
1959	15,972,000	8,232,000	5,475,400	2,498,800	257,800
1960	15,926,500	8,186,600	5,474,800	2,461,000	250,800
1961	16,727,300	8,661,300	5,753,900	2,649,300	258,100
1962	17,847,400	9,299,000	6,216,500	2,822,100	260,400
1963	18,593,600	9,638,300	6,414,000	2,961,800	262,500
1964	19,953,800	10,341,900	6,907,500	3,165,100	269,300
1965	21,331,500	11,199,100	7,480,600	3,438,200	280,300
1966	23,178,600	12,459,600	8,347,300	3,799,800	312,500
1967	22,819,300	12,248,600	8,215,600	3,743,500	289,500
1968	24,903,600	13,388,400	9,043,700	4,061,900	282,800
1969	26,375,700	14,396,400	9,692,500	4,395,400	308,600
1970RS	25,367,500R	13,756,600R	9,403,100	4,264,000	89,500*
1971	26,019,100R	14,125,500R	9,530,800	4,519,700	75,000*
1972	28,483,300R	15,772,300R	10,856,500	4,846,600	69,200*
1973	29,548,900R	16,689,700R	11,355,800	5,255,100	78,800*
1974	28,893,600R	16,552,300R	11,305,500	5,179,300	67,500*
1975	24,736,300R	14,354,300R	9,854,300	4,449,300	50,700*
1976	28,415,600R	16,493,100R	11,375,900	5,061,400	55,800*
1977	28,934,700R	16,951,300R	11,695,800	5,207,900	47,600*
1978	30,251,100R	17,687,000R	12,133,700	5,503,100	50,200*
1979	31,404,100R	18,649,600R	12,819,600	5,775,900	54,100*
1980	30,925,900R	17,886,700R	12,393,100	5,445,600	48,000*
1981	31,208,300R	18,811,700R	13,078,500	5,702,000	31,200*
1982	29,044,700R	17,309,400R	11,935,500	5,341,800	32,100*
1983	32,145,700R	18,999,800R	13,124,700	5,838,100	37,000*
1984	34,002,100R	20,715,400R	14,272,500	6,404,200	38,700*
1985	32,921,800R	20,042,200	13,752,900	6,255,400	33,900*
1986	35,379,300R	21,426,400R	14,708,900	6,686,600	30,900
1987	37,438,800	23,027,700	15,976,100	7,014,100	37,500

*Reclassification. Balance of chip board (non-containerboard grades) included in "All Other." RS = Revised Series

TABLE III (Cont.)

PAPERBOARD PRODUCTION 1955-1987

BY END USE

TONS

YEAR	BOXBOARD-DOMESTIC USE				ALL OTHER
	Total	Folding	Set-Up	Milk Carton & Food Service	Total
1955	4,407,400	2,938,800	636,700	831,900	2,392,100
1956	4,530,300	2,970,900	636,700	922,700	2,390,000
1957	4,513,400	3,020,800	568,200	924,400	2,331,300
1958	4,533,300	3,032,500	538,600	962,200	2,444,500
1959	4,911,400	3,285,900	576,100	1,049,400	2,828,600
1960	4,894,900	3,291,200	525,100	1,078,600	2,845,000
1961	5,007,500	3,374,800	496,800	1,135,900	3,058,500
1962	5,265,200	3,501,800	523,800	1,239,600	3,283,200
1963	5,417,200	3,635,800	526,800	1,254,600	3,538,100
1964	5,580,800	3,752,300	534,000	1,294,500	4,031,100
1965	5,811,200	3,879,600	547,300	1,384,300	4,321,200
1966	6,075,900	4,040,300	559,700	1,475,900	4,643,100
1967	5,973,100	4,020,700	496,100	1,456,300	4,597,600
1968	6,334,000	4,218,300	519,500	1,596,200	5,181,200
1969	6,424,800	4,261,600	498,600	1,664,600	5,554,500
1970RS	6,307,100R	4,144,100R	466,500	1,692,500	5,307,800R
1971	6,195,700R	4,101,400R	448,000	1,646,300	5,697,900R
1972	6,531,600R	4,420,300R	455,100	1,656,000	6,179,400R
1973	6,741,800R	4,682,100R	465,300	1,594,400	6,117,400R
1974	6,377,700R	4,405,200R	403,600	1,568,900	5,963,600R
1975	5,644,600R	3,877,200R	304,500	1,462,900	4,737,400R
1976	6,340,800R	4,690,900R	331,400	1,518,500	5,381,700R
1977	6,313,900R	4,528,300R	302,500	1,483,100	5,669,500R
1978	6,457,400R	4,678,500R	332,700	1,446,200	6,106,700R
1979	6,443,800R	4,695,100R	306,000	1,442,700	6,310,700R
1980	6,126,600R	4,463,500R	241,500	1,421,600	6,912,600R
1981	6,192,300R	4,563,900R	236,000	1,392,600	6,204,100R
1982	5,820,200R	4,313,000R	223,600	1,283,600	5,915,100R
1983	6,230,100R	4,615,100R	256,300	1,358,700	6,915,800R
1984	6,498,600R	4,839,000R	263,800	1,395,800	6,798,100R
1985	6,412,800R	4,805,100R	226,600	1,381,100	6,466,800R
1986	6,679,300R	5,066,500R	219,300	1,393,500	7,273,600
1987	6,917,000	5,233,000	243,200	1,440,800	7,494,100

RS = Revised Series

TABLE IV

CONTAINERBOARD PRODUCTION 1955-1987

FOR DOMESTIC USE

TONS

YEAR	CONTAINERBOARD TOTAL	LINERBOARD		
		Total	Kraft	Recycled
1955	7,244,200	4,789,600	3,947,400	842,200
1956	7,451,300	4,933,400	4,139,600	793,800
1957	7,337,200	4,869,700	4,097,900	771,800
1958	7,253,200	4,818,900	4,110,200	708,700
1959	8,232,000	5,475,400	4,701,000	774,400
1960	8,186,600	5,474,800	4,731,200	743,600
1961	8,661,300	5,753,900	5,095,700	658,200
1962	9,299,000	6,216,500	5,514,700	701,800
1963	9,638,300	6,414,000	5,706,100	707,900
1964	10,341,900	6,907,500	6,188,000	719,500
1965	11,199,100	7,480,600	6,698,100	782,500
1966	12,459,600	8,347,300	7,550,200	797,100
1967	12,738,600	8,215,600	7,693,300	522,300
1968	13,388,400	9,043,700	8,612,200	431,500
1969	14,396,400	9,692,500	9,345,300	347,200
1970RS	13,756,600R	9,403,100	9,133,400	269,700
1971	14,125,500R	9,530,800	9,249,100	281,700
1972	15,772,300R	10,856,500	10,577,600	278,900
1973	16,689,700R	11,355,800	11,066,800	289,000
1974	16,552,300R	11,305,500	10,838,400	467,100
1975	14,354,300R	9,854,300	9,647,000	207,300
1976	16,493,100R	11,375,900	11,093,200	282,700
1977	16,951,300R	11,695,800	11,354,400	341,400
1978	17,687,000R	12,133,700	11,877,300	256,400
1979	18,649,600R	12,819,600	12,417,300	402,300
1980	17,886,700R	12,393,100	11,948,600	444,500
1981	18,811,700R	13,078,500	12,754,300	324,200
1982	17,309,400R	11,935,500	11,656,500	279,000
1983	18,999,800R	13,124,700	12,835,600	289,100
1984	20,715,400R	14,272,500	14,068,800	203,700
1985	20,042,200R	13,752,900	13,467,100	285,800
1986	21,426,400R	14,708,900	14,288,600	420,300
1987	23,027,700	15,976,100	15,497,800	478,300

RS = Revised Series

TABLE IV (Cont.)

CONTAINERBOARD PRODUCTION 1955-1987

FOR DOMESTIC USE

TONS

YEAR	CORRUGATING MATERIAL			CHIP & FILLER BOARDS
	Total	Semi-Chemical#	Recycled	Total
1955	2,165,400	1,470,200	695,200	289,200
1956	2,249,500	1,551,700	697,800	268,400
1957	2,215,600	1,557,800	657,800	251,900
1958	2,191,300	1,486,200	705,100	249,000
1959	2,498,800	1,786,100	712,700	257,800
1960	2,461,000	1,788,900	672,100	250,800
1961	2,649,300	2,023,500	625,800	258,100
1962	2,822,100	2,188,800	633,300	260,400
1963	2,961,800	2,287,100	674,700	262,500
1964	3,165,100	2,447,400	717,700	269,300
1965	3,438,200	2,638,200	800,000	280,300
1966	3,799,800	2,909,800	890,000	312,500
1967	3,743,500	2,982,100	761,400	289,500
1968	4,061,900	3,371,200	690,700	282,800
1969	4,395,400	3,617,000	778,400	308,000
1970RS	4,264,000	3,404,700	859,300	89,500*
1971	4,519,700	3,580,200	939,500	75,000*
1972	4,846,600	3,874,300	972,300	69,200*
1973	5,255,100	4,126,600	1,128,500	78,800*
1974	5,179,300	4,010,300	1,169,000	67,500*
1975	4,449,300	3,579,300	870,000	50,700*
1976	5,061,400	3,986,400	1,075,000	55,800*
1977	5,207,900	4,128,200	1,079,700	47,600*
1978	5,503,100	4,305,300	1,197,800	50,200*
1979	5,775,900	4,573,600	1,202,300	54,100*
1980	5,445,600	4,398,500	1,047,100	48,000*
1981	5,702,000	4,561,200	1,140,800	31,200*
1982	5,341,800	4,202,500	1,139,300	32,100*
1983	5,838,100	4,532,700	1,305,400	37,000*
1984	6,404,200	5,018,800	1,385,400	38,700*
1985	6,255,400	4,896,600	1,358,800	33,900*
1986	6,686,600	5,160,800	1,525,800	30,900*
1987	7,014,100	5,407,000	1,607,100	37,500

#Includes a small amount of unbleached kraft for years 1970-1976.

RS - Revised Series

*Reclassification. Balance of chipboard (non-containerboard grades) included in "All Other."

TABLE V

BLEACHED PAPERBOARD PRODUCTION 1960 - 1987

TONS

YEAR	Milk Cartons	Folding Cartons	Heavyweight Cup, Rounded Nested Food Containers and Cup Lids	Plate Dish and Tray	Other Packaging Uses*	Linerboard
1960	571,000	745,200	287,400	123,700	136,200	76,000
1961	600,500	797,600	312,900	127,900	146,100	103,500
1962	678,500	865,100	324,400	148,400	139,200	124,200
1963	677,100	943,000	325,300	160,200	153,400	124,200
1964	692,000	988,800	329,200	178,800	182,300	101,100
1965	752,100	1,051,800	339,000	202,100	182,600	75,000
1966	783,200	1,100,700	367,200	232,100	200,400	100,300
1967	772,800	1,133,800	368,600	247,300	171,400	89,500
1968	848,800	1,234,100	412,000	258,900	195,100	104,900
1969	884,600	1,346,000	416,200	282,200	200,900	113,600
1970RS	940,700	1,327,700R	374,200R	279,600R	198,600R	118,800R
1971	918,800	1,354,100R	366,700	272,900R	245,900R	124,400R
1972	894,400	1,553,500R	395,600	313,300R	288,600R	129,800R
1973	871,200	1,705,700R	410,400	296,500	348,500	127,700R
1974	850,200	1,654,600R	415,800	289,600	382,700	99,400R
1975	865,800	1,436,300R	350,600	233,400R	315,800	81,800R
1976	822,900	1,773,400R	412,300	266,700	402,200	99,500R
1977	808,700	1,573,200R	401,300	262,400	525,200	85,000R
1978	731,200	1,739,500R	418,700	287,100R	614,900R	115,700R
1979**	718,700	1,688,800R	432,000	274,100	690,200R	110,900
1980	677,600	1,548,300R	419,500	298,400	747,200R	96,300
1981	631,800	1,631,200R	441,700	287,400	749,200R	100,600
1982	590,500	1,546,200R	374,800	274,500	726,900R	93,400
1983	606,900	1,693,700R	426,300	281,100	738,700R	115,000
1984	632,700R	1,809,600R	416,400	303,500R	700,300R	118,500
1985	609,000	1,742,000R	438,200	284,000	693,600R	113,800
1986	591,400	1,921,300R	437,200	318,700R	788,100R	132,000
1987	624,500	2,012,800	444,100	321,500	846,600	134,300

* - Includes Exports
** - Starting in 1979 lightweight cup is included with heavyweight cup.

RS - Revised Series

TABLE V (Cont.)

BLEACHED PAPERBOARD PRODUCTION 1960 - 1987

TONS

YEAR	SUMMARY OF PACKAGING PAPERBOARD			NON-PKG. USES	BLEACHED PAPERBOARD PRODUCTION
	Total Packaging Paperboard	Milk Carton and Food Service	Balance of Packaging Uses*	Total	TOTAL
1960	1,939,500	1,078,600	860,900	119,700	2,059,200
1961	4,088,500	1,135,900	952,600	151,500	2,240,000
1962	2,279,800	1,239,600	1,040,200	173,600	2,453,400
1963	2,383,200	1,254,600	1,128,600	181,800	2,565,000
1964	2,472,200	1,294,500	1,177,700	220,800	2,693,000
1965	2,602,600	1,384,300	1,218,300	244,400	2,847,000
1966	2,783,900	1,475,900	1,308,000	301,400	3,085,300
1967	2,783,400	1,456,300	1,327,100	273,800	3,057,200
1968	3,053,800	1,596,200	1,457,600	314,100	3,367,900
1969	3,243,500	1,664,600	1,578,900	316,400	3,559,900
1970RS	3,239,600R	1,649,000R	1,590,600R	87,800R	3,327,400R
1971	3,282,800R	1,604,300R	1,678,500R	80,500R	3,363,300R
1972	3,575,200R	1,623,400R	1,951,800R	91,900R	3,667,100R
1973	3,760,000R	1,594,300	2,165,700R	81,500	3,841,500R
1974	3,692,300R	1,568,700	2,123,600R	59,500	3,751,800R
1975	3,283,700R	1,462,100	1,821,600R	40,300	3,324,000R
1976	3,777,000R	1,518,400	2,258,600R	43,300	3,820,300R
1977	3,655,800R	1,483,100	2,172,700R	47,200	3,703,000R
1978	3,907,100R	1,446,200R	2,460,900R	47,700	3,954,800R
1979	3,914,700R	1,442,700	2,472,000R	58,600R	3,973,300R
1980	3,787,300R	1,421,600	2,365,700R	48,500R	3,835,800R
1981	3,841,900R	1,392,600	2,449,300R	44,200R	3,886,100R
1982	3,606,300R	1,283,600	2,322,700R	37,700R	3,644,000R
1983	3,861,700R	1,358,700	2,503,000R	33,100R	3,894,800R
1984	3,981,000R	1,395,800	2,585,200R	30,200R	4,011,200R
1985	3,880,600R	1,381,100	2,499,500R	30,200R	3,910,800R
1986	4,188,700R	1,393,500	2,795,200R	33,500R	4,222,200R
1987	4,383,800	1,440,800	2,943,000	36,400	4,420,200

* Includes Exports RS = Revised Series

TABLE VI

PAPERBOARD PRODUCTION BY REGION

1965 - 1987

TONS

YEAR	PAPERBOARD TOTAL	CONTAINERBOARD-DOMESTIC Total	Linerboard	Corrugating Material	Container Chip & Filler Boards
NORTH EASTERN					
1965	2,874,700	710,800	192,700	481,100	37,000
1966	2,992,100	767,700	208,100	521,400	38,200
1967	2,810,100	695,200	121,500	539,000	34,700
1968	2,820,900	675,700	100,900	534,600	40,200
1969	2,769,600	687,000	83,000	569,200	34,800
1970RS	2,627,800	653,400	60,100	556,600	36,700
1971	2,525,300	634,800	54,400	551,100	29,300
1972	2,622,700	645,800	54,700	562,300	28,800
1973	2,733,900	725,300	56,900	615,300	53,100
1974	2,677,500	852,100	152,700	642,000	57,400
1975	2,052,100	536,400	35,200	445,400	55,800
1976	2,255,200	566,200	70,800	448,200	47,200
1977	2,247,300	562,900	70,800	446,600	45,500
1978	2,284,400	561,300	37,400	470,200	53,700
1979	2,259,800	564,200	61,400	456,700	46,100
1980	2,042,700	486,900	27,300	415,200	44,400
1981	1,867,700	369,900	-	328,500	41,400
1982	1,651,900	342,800	10,800	295,600	36,400
1983	1,891,100	380,300	45,600	317,800	16,900
1984	1,835,300	362,400	-	346,000	16,400
1985	1,828,100	333,300	-	327,300	6,000*
1986	1,929,800	375,700	-	369,300	6,400
1987	1,997,500	391,000	300	375,600	15,100
SOUTHERN					
1965	11,270,100	6,680,400	5,330,100	1,318,300	32,000
1966	12,379,900	7,362,500	5,852,500	1,468,800	41,200
1967	12,537,100	7,435,600	5,964,900	1,435,600	35,100
1968	14,081,800	8,313,400	6,740,600	1,538,200	34,600
1969	15,433,100	9,181,100	7,488,200	1,651,400	41,500
1970RS	15,062,900R	8,961,400	7,306,700	1,618,400	36,300
1971	15,764,500R	9,330,700	7,507,600	1,789,600	33,500
1972	17,464,800R	10,671,200	8,658,600	1,988,100	24,500
1973	18,157,000R	11,256,800	9,083,500	2,159,000	14,300
1974	17,857,100R	11,006,800	8,883,300	2,111,000	12,500
1975	15,733,100R	9,882,100	7,957,800	1,860,900	63,400
1976	18,097,200R	11,400,700	9,178,200	2,181,300	41,200
1977	18,204,300R	11,541,000	9,299,000	2,199,400	42,600
1978	19,516,200R	12,268,700	9,890,200	2,331,500	47,000
1979	20,194,200R	12,692,100	10,280,600	2,376,900	34,600
1980	20,165,800R	12,120,000	9,897,600	2,196,400	26,000
1981	20,418,200R	12,863,000	10,527,900	2,300,900	34,200
1982	19,221,800R	11,872,300	9,682,300	2,157,300	32,700
1983	20,899,300R	12,864,300	10,546,500	2,280,500	37,300
1984	22,238,100R	14,143,600	11,536,900	2,568,100	38,600
1985	21,389,700R	13,606,500	11,068,800	2,536,200	1,500*
1986	22,963,600R	14,347,400	11,676,500	2,668,500	2,400
1987	24,484,800R	15,644,300	12,795,100	2,849,200	

NOTE: Exports are included in "All Other"
NOTE: Detail does not necessarily add to totals due to rounding. RS - Revised Series

*Reclassification. Balance of chipboard (non-containerboard grades) included in "All Other."

TABLE VI (Cont.)

PAPERBOARD PRODUCTION BY REGION

1965 - 1987

TONS

YEAR	BOXBOARD-DOMESTIC				ALL OTHER
	Total	Folding	Set-Up	Milk Carton & Food Service	Total
NORTH EASTERN					
1965	1,293,000	972,100	248,800	72,100	870,900
1966	1,302,900	989,600	246,000	67,300	921,500
1967	1,233,600	954,800	214,800	64,000	881,300
1968	1,274,200	991,100	220,900	62,200	871,000
1969	1,178,800	911,900	202,200	64,700	903,800
1970RS	1,108,100	851,100	194,100	62,900	866,300
1971	1,003,900	767,100	176,200	60,600	886,600
1972	1,020,800	788,400	181,300	51,100	956,100
1973	961,900	752,200	181,000	28,700	1,046,700
1974	861,600	679,800	154,200	27,600	963,800
1975	724,500	582,000	116,500	26,000	791,200
1976	841,100	690,800	120,900	29,400	847,900
1977	865,100	735,400	102,500	27,200	819,300
1978	861,000	723,300	112,700	25,000	862,100
1979	840,900	721,900	85,500	33,500	854,700
1980	787,800	680,400	72,300	35,100	768,000
1981	780,100	687,900	63,400	28,800	717,700
1982	678,100	593,300	59,400	25,400	631,000
1983	730,900	631,000	74,100	25,800	779,900
1984	710,100	614,200	71,200	24,700	762,800
1985	673,800R	587,000R	65,200R	21,600	821,000R
1986	718,700	649,600	54,100	15,000	835,400
1987	772,400	686,900	71,600	13,900	834,100
SOUTHERN					
1965	2,428,400	1,216,200	122,300	1,089,900	2,161,300
1966	2,649,200	1,309,900	128,400	1,210,900	2,368,200
1967	2,666,500	1,385,000	114,100	1,167,400	2,435,000
1968	2,944,000	1,490,200	127,800	1,326,000	2,824,400
1969	3,163,200	1,634,600	122,600	1,406,000	3,088,800
1970RS	2,887,100R	1,349,900R	113,400	1,423,800	3,214,400R
1971	2,943,000R	1,407,000R	105,500	1,430,500	3,490,800R
1972	3,110,000R	1,555,000R	108,400	1,446,600	3,683,600R
1973	3,299,100R	1,767,200R	118,000	1,413,900	3,601,100R
1974	3,169,100R	1,677,300R	104,900	1,386,900	3,681,200R
1975	2,870,400R	1,517,800R	89,600	1,263,000	2,980,600R
1976	3,329,800R	1,899,500R	99,700	1,330,600	3,366,700R
1977	3,094,300R	1,710,400R	96,600	1,287,300	3,569,000R
1978	3,278,400R	1,892,700R	104,500	1,281,200	3,969,100R
1979	3,250,800R	1,869,500R	104,500	1,276,800	4,251,300R
1980	3,123,300R	1,768,800R	100,300	1,254,200	4,922,500R
1981	3,177,300R	1,839,200R	105,400	1,232,700	4,377,900R
1982	2,991,900R	1,740,500R	94,500	1,156,900	4,357,600R
1983	3,233,500R	1,927,000R	98,800	1,207,700	4,801,500R
1984	3,392,800R	2,046,000R	107,300	1,239,500	4,701,700R
1985	3,294,900R	1,990,100R	86,400R	1,218,400	4,488,300R
1986	3,501,100R	2,152,900R	94,400	1,253,800	5,115,100R
1987	3,607,300R	2,233,300R	93,900	1,280,100	5,233,200R

NOTE: Exports are included in "All Other"
NOTE: Detail does not necessarily add to totals due to rounding.
NOTE: For this Table unbleached kraft folding has been included in the "All Other" domestic data.
RS - Revised Series

TABLE VI (Cont.)

PAPERBOARD PRODUCTION BY REGION

1965 - 1987

TONS

YEAR	PAPERBOARD TOTAL	CONTAINERBOARD - DOMESTIC			
		Total	Linerboard	Corrugating Material	Container Chip & Filler Boards
NORTH CENTRAL					
1965	4,031,600	1,796,600	408,700	1,203,800	184,100
1966	4,191,700	1,880,100	400,700	1,282,600	196,800
1967	3,928,600	1,677,600	252,600	1,240,100	184,900
1968	4,174,400	1,802,200	190,100	1,431,400	180,700
1969	4,272,100	1,916,600	160,200	1,539,300	217,200
1970	3,936,000	1,788,900	110,300	1,471,000	207,600
1971	4,041,100	1,854,000	101,800	1,534,100	218,100
1972	4,245,500	1,926,000	106,400	1,597,400	222,200
1973	4,360,500	2,031,900	111,000	1,697,300	223,600
1974	4,186,500	2,005,700	176,600	1,637,900	191,200
1975	3,367,200	1,655,400	63,900	1,448,600	142,900
1976	3,927,900	1,869,800	57,000	1,663,900	148,900
1977	4,091,700	2,010,300	117,200	1,734,300	158,800
1978	4,164,200	2,127,500	98,600	1,870,400	158,500
1979	4,352,900	2,334,900	165,800	2,029,300	139,800
1980	4,137,700	2,271,100	191,400	1,943,500	136,100
1981	4,288,200	2,416,900	143,300	2,124,800	148,800
1982	3,979,300	2,210,000	103,900	1,984,300	121,800
1983	4,396,700	2,413,300	60,800	2,227,000	125,500
1984	4,770,400	2,600,900	75,300	2,409,600	116,000
1985	4,565,300R	2,441,200	86,800	2,333,400	21,000*
1986	4,898,300	2,648,700	73,200	2,555,900	19,600
1987	5,042,900	2,716,500	72,400	2,623,900	20,200
PACIFIC COAST					
1965	3,155,100	2,011,400	1,549,000	435,100	27,300
1966	3,614,900	2,449,300	1,886,000	527,100	36,300
1967	3,543,500	2,440,300	1,876,600	528,900	34,800
1968	3,826,500	2,597,100	2,012,000	557,800	27,300
1969	3,900,900	2,611,800	1,961,100	635,600	15,100
1970	3,740,800	2,560,600	1,926,000	618,000	16,600
1971	3,688,200	2,533,500	1,867,000	644,900	21,600
1972	4,150,300	2,776,000	2,036,800	698,800	40,400
1973	4,297,500	2,914,000	2,104,400	783,500	26,100
1974	4,172,500	2,902,400	2,092,900	788,300	21,200
1975	3,583,900	2,512,300	1,797,400	694,400	20,500
1976	4,135,300	2,863,500	2,069,900	768,000	25,600
1977	4,391,400	3,053,200	2,208,800	827,600	16,800
1978	4,286,300	2,950,800	2,107,500	831,000	12,300
1979	4,597,200	3,233,600	2,311,800	913,000	8,800
1980	4,579,700	3,192,300	2,276,800	890,500	25,000
1981	4,634,200	3,390,200	2,407,300	947,800	35,100
1982	4,191,700	3,082,400	2,138,500	904,600	39,300
1983	4,958,600	3,515,100	2,471,800	1,012,800	30,500
1984	5,158,300	3,748,200	2,660,300	1,080,506	7,400
1985	5,138,700R	3,661,200	2,597,300	1,058,500	5,400*
1986	5,587,600	4,054,600	2,959,200	1,092,900	2,500
1987	5,913,600	4,275,900	3,108,300	1,165,400	2,200

*Reclassification. Balance of chipboard (non-containerboard grades) included in "All Other."

TABLE VI (Cont.)

PAPERBOARD PRODUCTION BY REGION

1965 - 1987

TONS

YEAR	BOXBOARD-DOMESTIC				ALL OTHER
	Total	Folding	Set-Up	Milk Carton & Food Service	Total
NORTH CENTRAL					
1965	1,517,300	1,288,600	150,000	78,700	717,700
1966	1,541,900	1,316,300	160,300	65,300	769,700
1967	1,489,300	1,288,300	140,800	60,200	761,700
1968	1,489,100	1,295,100	150,200	43,800	883,100
1969	1,458,000	1,279,300	154,100	24,600	897,500
1970	1,338,300	1,194,300	133,500	10,500	808,800
1971	1,345,500	1,195,800	140,900	8,800	841,600
1972	1,396,300	1,246,000	141,800	8,500	923,200
1973	1,379,400	1,236,300	142,700	400	949,200
1974	1,262,300	1,137,600	124,600	100	918,500
1975	1,018,400	937,200	80,600	600	693,400
1976	1,177,900	1,089,800	88,000	100	880,200
1977	1,165,200	1,077,500	87,700	-	916,200
1978	1,123,900	1,031,800	92,100	-	912,800
1979	1,105,500	1,009,700	95,800	-	912,500
1980	1,030,700	978,200	52,500	-	835,900
1981	1,062,300	1,011,800	50,500	-	809,000
1982	1,035,100	984,200	50,900	-	734,200
1983	1,112,100	1,049,800	62,300	-	871,300
1984	1,176,000	1,104,900	71,100	-	993,500
1985R	1,154,900	1,090,100	64,800	-	969,200
1986	1,131,100	1,064,400	66,700	-	1,118,500
1987	1,182,700	1,110,000	72,700	-	1,143,700
PACIFIC COAST					
1965	572,600	402,800	26,200	143,600	571,100
1966	582,000	424,500	25,000	132,500	583,600
1967	583,600	392,600	26,300	164,700	519,600
1968	626,800	442,000	20,600	164,200	602,600
1969	624,800	435,800	19,700	169,300	664,300
1970	626,200	405,400	25,500	195,300	554,000
1971	563,700	391,900	25,400	146,400	591,000
1972	614,700	441,300	23,600	149,800	759,600
1973	646,600	471,600	23,600	151,400	736,900
1974	615,000	440,800	19,900	154,300	655,100
1975	568,300	377,200	17,800	173,300	503,300
1976	614,500	433,300	22,800	158,400	657,300
1977	601,400	417,100	15,700	168,600	736,800
1978	576,500	413,100	23,400	140,000	759,000
1979	548,800	396,200	20,200	132,400	814,800
1980	504,400	355,700	16,400	132,300	883,000
1981	500,900	353,100	16,700	131,100	743,100
1982	424,500	304,400	18,800	101,300	684,800
1983	443,500	297,200	21,100	125,200	1,000,000
1964	467,300	321,500	14,200	131,600	942,800
1985R	467,500	316,200	10,200	141,100	1,010,000
1986	463,500	334,700	4,100	124,700	1,069,500
1987	489,700	337,900	5,000	146,800	1,148,000

NOTE: Exports are included in "All Other"
NOTE: Detail does not necessarily add to totals due to rounding
NOTE: For this Table unbleached kraft folding has been included in the "All Other" domestic data.

TABLE VII

PAPERBOARD PRODUCTION

BY GRADE AND TYPE 1970 - 1987

TONS

YEAR	CONTAINERBOARD - DOMESTIC				BOXBOARD - DOMESTIC		
	Total	Linerboard	Corrugating Material	Container Chip & Filler Board	Total	Folding	Set-Up
Total Paperboard							
1970RS	13,756,600R	9,403,100	4,264,000	89,500*	6,303,100R	4,144,100R	466,500
1971	14,125,500R	9,530,800	4,519,700	75,000*	6,195,700R	4,101,400R	448,000
1972	15,772,300R	10,856,500	4,846,600	69,200*	6,531,600R	4,420,500R	455,100
1973	16,689,700R	11,355,800	5,255,100	78,800*	6,741,800R	4,682,100R	465,300
1974	16,552,300R	11,305,500	5,179,300	67,500*	6,377,700R	4,405,200R	403,600
1975	14,354,300R	9,854,300	4,449,300	50,700*	5,644,600R	3,877,200R	304,500
1976	16,493,100R	11,375,900	5,061,400	55,800*	6,540,800R	4,690,900R	331,400
1977	16,951,300R	11,695,800	5,207,900	47,600*	6,313,900R	4,528,300R	302,500
1978	17,687,000R	12,133,700	5,503,100	50,200*	6,457,400R	4,678,500R	332,700
1979	18,649,600R	12,819,600	5,775,900	54,100*	6,443,800R	4,695,100R	306,000
1980	17,886,700R	12,393,100	5,445,600	48,000*	6,126,600R	4,463,500R	241,500
1981	18,811,700R	13,078,500	5,702,000	31,200*	6,192,500R	4,563,900R	236,000
1982	17,309,400R	11,935,500	5,341,800	32,100*	5,820,200R	4,313,000R	223,600
1983	18,999,800R	13,124,700	5,838,100	37,000*	6,230,100R	4,615,100R	256,300
1984	20,715,400R	14,272,500	6,404,200	38,700*	6,498,600R	4,839,000R	263,800
1985	20,042,200R	13,752,900	6,255,400	33,900*	6,412,800R	4,805,100R	226,600R
1986	21,426,400	14,708,900	6,686,600	30,900	6,679,300	5,066,500	219,300
1987	23,027,700	15,976,100	7,014,100	37,500	6.917,000	5,233,000	243,200
Unbleached Kraft							
1970	9,043,900	9,014,600	3,800	25,500	343,400	343,400	-
1971	9,155,300	9,124,700	1,100	29,500	339,600	339,600	-
1972	10,469,900	10,447,800	-	22,100	389,800	389,800	-
1973	10,951,600	10,939,100	2,300	10,200	454,800	454,800	-
1974	10,754,300	10,739,000	3,800	11,500	469,700	469,700	-
1975	9,586,000	9,565,200	8,700	12,100	463,000	463,000	-
1976	11,023,900	10,993,700	20,100	10,100	577,500	577,500	-
1977	11,283,000	11,269,400	-	13,600	587,900	587,900	-
1978	11,779,700	11,761,600	-	18,100	617,600	617,600	-
1979	12,306,400	12,306,400	-	-	697,800	697,800	-
1980	11,852,300	11,852,300	-	-	680,400	680,400	-
1981	12,653,700	12,653,700	-	-	671,900	671,900	-
1982	11,563,100	11,563,100	-	-	690,600	690,600	-
1983	12,720,600	12,720,600	-	-	710,100	710,100	
1984	13,950,300	13,950,300	-	-	752,400	752,400	-
1985	13,353,300	13,353,300	-	-	821,700	821,700	-
1986	14,156,600	14,156,600	-	-	889,400	889,400	-
1987	15,363,500	15,363,500	-	-	864,900	864,900	-
Semichemical							
1970	3,400,900	-	3,400,900	-	-	-	-
1971	3,579,100	-	3,579,100	-	-	-	-
1972	3,874,300	-	3,874,300	-	-	-	-
1973	4,124,300	-	4,124,300	-	-	-	-
1974	4,006,500	-	4,006,500	-	-	-	-
1975	3,570,600	-	3,570,600	-	-	-	-
1976	3,966,300	-	3,966,300	-	-	-	-
1977	4,128,200	-	4,128,200	-	-	-	-
1978	4,305,300	-	4,305,300	-	-	-	-
1979	4,573,600	-	4,573,600	-	-	-	-
1980	4,398,500	-	4,398,500	-	-	-	-
1981	4,561,200	-	4,561,200	-	-	-	-
1982	4,202,500	-	4,202,500	-	-	-	-
1983	4,532,700	-	4,532,700	-	-	-	-
1984	5,018,800	-	5,018,800	-	-	-	-
1985	4,896,600	-	4,896,600	-	-	-	-
1986	5,160,800	-	5,160,800	-	-	-	-
1987	5,407,000	-	5,407,000	-	-	-	-

\- Represents zero

* Reclassification. Balance of chipboard (non-containerboard grades) included in "All Other."

TABLE VII (Cont.)

PAPERBOARD PRODUCTION

BY GRADE AND TYPE 1970 - 1987

TONS

YEAR	BOXBOARD (Cont.) Milk Carton & Food Service	ALL OTHER (Exc. Exports) TOTAL	Gypsum Wallboard Facings	Tube, Can and Drum	Balance of All Other	EXPORTS Total	ALL GRADES Total
Total Paperboard							
1970	1,692,500	3,408,400R	775,700	887,200	1,745,500R	1,899,400	25,367,500R
1971	1,646,300	3,582,400R	935,700	925,700	1,721,000R	2,115,500	26,019,100R
1972	1,656,000	3,947,900R	1,016,600	1,065,500	1,865,800R	2,231,500	28,483,300R
1973	1,594,400	4,102,200R	1,050,300	1,145,400	1,906,500R	2,015,200	29,548,900R
1974	1,568,900	3,814,200R	984,100	1,128,500	1,701,600R	2,149,400	28,893,600R
1975	1,462,900	3,284,100R	893,800	907,400	1,482,900R	1,453,300	24,736,300R
1976	1,518,500	3,672,500R	984,500	1,016,600	1,671,400R	1,709,200	28,415,600R
1977	1,483,100	3,839,100R	1,056,800	1,075,900	1,706,400R	1,830,400	28,934,700R
1978	1,446,200R	4,066,800R	1,094,000	1,163,000	1,809,800R	2,039,900	30,251,100R
1979	1,442,700	4,048,100R	1,179,900	1,177,200	1,691,000R	2,262,600	31,404,100R
1980	1,421,600	3,578,200R	918,800	1,077,700	1,581,700R	3,334,400	30,925,900R
1981	1,392,600	3,582,200R	887,600	1,114,600	1,580,000R	2,621,900	31,208,300R
1982	1,283,600	3,261,300R	805,200	1,046,200	1,409,900R	2,653,800	29,044,700R
1983	1,358,700	3,903,800R	1,053,800	1,210,800	1,639,200R	3,012,000	32,145,700R
1984	1,395,800	4,056,800R	1,125,200	1,254,800	1,676,800R	2,731,300	34,002,100R
1985	1,381,100	3,955,500R	1,149,400R	1,211,400R	1,594,700R	2,511,300	32,921,800R
1986	1,393,500	4,176,700R	1,220,100	1,266,300	1,690,300R	3,096,900	35,379,300R
1987	1,440,800	4,292,700	1,213,000	1,321,500	1,758,200	3,201,400	37,438,800
Unbleached Kraft							
1970	-	470,400	-	175,400	295,000	1,683,400	11,541,100
1971	-	470,900	-	194,500	276,400	1,834,300	11,800,100
1972	-	521,500	-	223,200	298,300	1,887,500	13,268,700
1973	-	559,400	-	226,200	333,200	1,596,700	13,562,500
1974	-	526,200	-	231,000	295,200	1,582,700	13,332,900
1975	-	435,900	-	175,900	260,000	1,057,900	11,542,800
1976	-	483,500	-	217,500	266,000	1,247,300	13,332,200
1977	-	490,300	-	227,800	262,500	1,289,600	13,650,800
1978	-	508,900	-	250,600	258,300	1,466,300	14,372,500
1979	-	500,900	-	267,000	233,900	1,645,900	15,151,000
1980	-	382,700	-	226,400	156,300	2,379,900	15,295,300
1981	-	390,200	-	219,200	171,000	1,886,500	15,602,300
1982	-	349,700	-	192,900	156,800	1,931,500	14,534,900
1983	-	410,900R	-	204,300	206,600	2,280,700	16,122,300
1984	-	396,300	-	191,500	204,800	2,086,400	17,185,400
1985	-	362,600	-	164,200	198,400	1,830,000	16,367,600
1986	-	397,700	-	164,000	233,700	2,245,500	17,689,200
1987	-	366,600	-	160,700	206,100	2,318,000	18,913,200
Semichemical							
1970	-	33,200	-	23,700	9,500	84,300	3,518,400
1971	-	17,000	-	14,100	2,900	104,000	3,700,100
1972	-	23,600	-	17,700	5,900	111,700	4,009,600
1973	-	28,600	-	18,300	10,300	107,400	4,260,300
1974	-	23,400	-	17,400	6,000	145,500	4,175,400
1975	-	15,800	-	13,900	1,900	115,400	3,701,800
1976	-	19,400	-	18,200	1,200	119,300	4,105,000
1977	-	14,300	-	14,300	-	121,900	4,264,400
1978	-	14,800	-	14,600	200	119,200	4,439,300
1979	-	17,300	-	10,800	6,500	98,200	4,689,100
1980	-	2,700	-	2,400	300	322,300	4,723,500
1981	-	2,800	-	2,700	100	155,200	4,719,200
1982	-	1,900	-	1,300	600	184,900	4,389,300
1983	-	5,100	-	-	5,100	192,600	4,730,400
1984	-	1,000	-	-	1,000	149,200	5,169,000
1985	-	2,000	-	-	2,000	189,400	5,088,000
1986	-	2,700	-	-	2,700	212,500	5,376,000
1987	-	3,500	-	-	3,500	189,200	5,599,700

- Represents zero.

TABLE VII (Cont.)

PAPERBOARD PRODUCTION

BY GRADE AND TYPE 1970 - 1987

TONS

YEAR	CONTAINERBOARD - DOMESTIC				BOXBOARD - DOMESTIC		
	Total	Linerboard	Corrugating Material	Container Chip & Filler Board	Total	Folding	Set-Up
Solid Bleached							
1970	118,800	118,800	-	-	2,976,700R	1,327,700R	
1971	124,400	124,400	-	-	2,958,400R	1,354,100R	-
1972	129,800	129,800	-	-	3,176,900R	1,553,500R	-
1973	127,700	127,700	-	-	3,300,000R	1,705,700R	-
1974	99,400	99,400	-	-	3,223,300R	1,654,600R	-
1975	81,800	81,800	-	-	2,898,700R	1,436,300R	-
1976	99,500	99,500	-	-	3,291,800R	1,773,400R	-
1977	85,000	85,000	-	-	3,056,300R	1,573,200R	
1978	115,700	115,700	-	-	3,185,700R	1,739,500R	-
1979	110,900	110,900	-	-	3,131,500R	1,688,800R	-
1980	96,300	96,300	-	-	2,969,900R	1,548,300R	-
1981	100,600	100,600	-	-	3,023,800R	1,631,200R	-
1982	93,400	93,400	-	-	2,829,800R	1,546,200R	-
1983	115,000	115,000	-	-	3,052,400R	1,693,700R	
1984	118,500	118,500	-	-	3,205,400R	1,809,600R	-
1985	113,800	113,800	-	-	3,123,100R	1,742,000R	-
1986	132,000	132,000	-	-	3,314,800R	1,921,300R	-
1987	134,300	134,300	-	-	3,453,600	2,012,800	-
Recycled							
1970	1,193,000R	269,700	859,300	64,000*	2,983,000	2,473,000	466,500
1971	1,266,700R	281,700	939,500	45,500*	2,897,700	2,407,700	448,000
1972	1,298,300R	278,900	972,300	47,100*	2,964,900	2,477,200	455,100
1973	1,486,100R	289,000	1,128,500	68,600*	2,987,000	2,521,600	465,300
1974	1,692,100R	467,100	1,169,000	56,000*	2,684,700	2,280,900	403,600
1975	1,115,900R	207,300	870,000	38,600*	2,283,200	1,977,900	304,500
1976	1,403,400R	282,700	1,075,000	45,700*	2,671,500	2,340,000	331,400
1977	1,455,100R	341,400	1,079,700	34,000*	2,669,700	2,367,200	302,500
1978	1,486,300R	256,400	1,197,800	32,100*	2,654,100	2,321,400	332,700
1979	1,658,700R	402,300	1,202,300	54,100*	2,614,500	2,308,500	306,000
1980	1,539,600R	444,500	1,047,100	48,000*	2,476,300	2,234,800	241,500
1981	1,496,200R	324,200	1,140,800	31,200*	2,496,800	2,260,800	236,000
1982	1,450,400R	279,000	1,139,300	32,100*	2,299,800	2,076,200	223,600
1983	1,631,500R	289,100	1,305,400	37,000*	2,467,600	2,211,300	256,300
1984	1,627,800R	203,700	1,385,400	38,700*	2,540,800	2,277,000	263,800
1985	1,678,500R	285,800	1,358,800	33,900*	2,468,000	2,241,400	226,600
1986	1,977,000R	420,300	1,525,800	30,900	2,475,100	2,255,800	219,300
1987	2,122,900	478,300	1,607,100	37,500	2,598,500	2,355,300	243,200

- Represents zero

*Reclassification. Balance of chipboard (non-containerboard grades) included in "All Other."

TABLE VII (Cont.)

PAPERBOARD PRODUCTION

BY GRADE AND TYPE 1970 - 1987

TONS

YEAR	BOXBOARD (Cont.) Milk Carton & Food Service	ALL OTHER (Exc. Exports) TOTAL	Gypsum Wallboard Facings	Tube, Can and Drum	Balance of All Other	EXPORTS Total	ALL GRADES TOTAL
Solid Bleached							
1970	1,649,000	117,500R	-	-	117,500R	114,400	3,327,400R
1971	1,604,300	124,000R	-	-	124,000R	156,500	3,363,300R
1972	1,623,400	142,600	-	-	142,600	217,800	3,667,100R
1973	1,594,300	133,500	-	-	133,500	290,300	3,841,500R
1974	1,568,700	108,900	-	-	108,900	320,200	3,751,800R
1975	1,462,100	87,600	-	-	87,600	256,200	3,324,000R
1976	1,518,400	122,900	-	-	122,900	306,100	3,820,300R
1977	1,483,100	172,300	-	-	172,300	389,400	3,703,000R
1978	1,446,200R	220,500R	-	-	220,500R	432,900	3,954,800R
1979	1,442,700	234,200	-	-	234,200	496,700	3,973,300R
1980	1,421,600	220,000	-	-	220,000	549,600	3,835,800R
1981	1,392,600	205,300	-	-	205,300	556,400	3,886,100R
1982	1,283,600	196,100	-	-	196,100	524,700	3,644,000R
1983	1,358,700	213,000	-	-	213,000	514,400	3,894,800R
1984	1,395,800	209,000	-	-	209,000	478,300	4,011,200R
1985	1,381,100	208,300	-	-	208,300	465,600	3,910,800R
1986	1,393,500	206,700R	-	-	206,700R	568,700	4,222,200R
1987	1,440,800	213,400	-	-	213,400	618,900	4,420,200
Recycled							
1970	43,500	2,787,300R	775,700	688,100	1,323,500R	17,300	6,980,600
1971	42,000	2,970,500R	935,700	717,100	1,317,700R	20,700	7,155,600
1972	32,600	3,260,200R	1,016,600	824,600	1,419,000R	14,500	7,537,900
1973	100	3,380,700R	1,050,300	900,900	1,429,500R	30,800	7,884,600
1974	200	3,155,700R	984,100	880,100	1,291,500R	101,000	7,633,500
1975	800	2,744,800R	893,800	717,600	1,133,400R	23,800	6,167,700
1976	100	3,046,700R	984,500	780,900	1,281,300R	36,500	7,158,100
1977	-	3,162,200R	1,056,800	833,800	1,271,600R	29,500	7,316,500
1978	-	3,322,600R	1,094,000	897,800	1,330,800R	21,500	7,484,500
1979	-	3,295,700R	1,179,900	899,400	1,216,400R	21,800	7,590,700
1980	-	2,972,800R	918,800	848,900	1,205,100R	82,600	7,071,300
1981	-	2,983,900R	887,600	892,700	1,203,600R	23,800	7,000,700
1982	-	2,713,600R	805,200	852,000	1,056,400R	12,700	6,476,500
1983	-	3,274,800R	1,053,800	1,006,500	1,214,500R	24,300	7,398,200
1984	-	3,450,500R	1,125,200	1,063,300	1,262,000R	17,400	7,636,500
1985	-	3,382,600R	1,149,400R	1,047,200R	1,186,000R	26,300	7,555,400R
1986	-	3,569,600R	1,220,100R	1,102,300R	1,247,200R	70,200	8,091,900R
1987	-	3,709,000	1,213,000	1,160,800	1,335,200	75,300	8,505,700

- Represents zero.

TABLE VIII

PAPERBOARD PRODUCTION

BY MONTHS

1987

TONS

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE
Containerboard-Domestic Use	2,850.7	2,618.9	2,896.3	2,776.5	2,905.3	2,852.7
Linerboard	1,312.6	1,190.6	1,322.3	1,243.6	1,372.4	1,342.7
Kraft	1,273.8	1,151.0	1,278.4	1,202.4	1,331.4	1,301.4
Recycled	38.8	39.6	43.9	41.2	41.0	41.3
Corrugating	598.8	544.3	610.9	572.4	571.1	573.6
Semichemical	466.1	420.5	475.0	443.9	436.5	445.8
Recycled	132.7	123.8	135.9	128.5	134.6	127.8
Container Chip	3.0	3.4	4.2	2.8	3.2	1.5
Boxboard-Domestic Use	516.1	470.7	508.8	507.8	514.8	486.1
Folding	371.2	340.2	365.7	370.6	372.1	379.6
Set-Up	17.6	17.1	20.1	21.4	20.8	20.4
Milk Carton & Food Service	127.3	113.4	123.0	115.8	122.4	126.1
All Other	682.8	664.0	708.9	720.2	725.8	720.3
Domestic	420.2	409.9	450.1	449.9	443.8	448.8
Export	262.6	254.1	258.8	270.3	282.0	271.5
TOTAL PAPERBOARD	3,113.3	2,873.0	3,155.1	3,046.8	3,187.3	3,124.2

NOTE: Totals do not add due to rounding.
NOTE: For this table unbleached kraft folding has been included in the "All Other" domestic data.

TABLE IX

BOX PLANT CONSUMPTION

BY MONTHS

1987

TONS

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE
Linerboard and Corrugating Material	1,804.2	1,753.9	1,858.9	1,916.1	1,757.9	1,918.2
Total Containerboard	1,807.3	1,756.5	1,861.3	1,918.6	1,760.2	1,920.7

SOURCE: Box Plant Consumption - Fibre Box Association

TABLE VIII (Cont.)

PAPERBOARD PRODUCTION

BY MONTHS

1987

TONS

	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Containerboard-Domestic Use	2,841.3	2,984.7	2,855.1	2,925.2	2,847.7	2,883.0	34,237.4
Linerboard	1,345.9	1,392.4	1,379.1	1,361.6	1,345.3	1,367.6	15,976.1
Kraft	1,308.2	1,351.8	1,341.8	1,321.1	1,308.3	1,328.2	15,497.8
Recycled	37.7	40.6	37.3	40.5	37.0	39.4	478.3
Corrugating	580.7	607.9	586.4	605.9	585.1	577.0	7,014.1
Semichemical	449.8	469.2	454.3	461.5	447.8	436.6	5,407.0
Recycled	130.9	138.7	132.1	144.4	137.3	140.4	1,607.1
Container Chip	2.7	3.3	1.8	2.7	5.4	3.5	37.5
Boxboard-Domestic Use	497.8	531.9	480.1	527.6	497.6	512.8	6,052.1
Folding	351.9	385.6	355.2	390.9	364.6	360.5	4,368.1
Set-Up	16.7	21.8	20.3	23.3	24.8	19.4	243.2
Milk Carton & Food Service	129.2	124.5	104.6	113.4	108.2	132.9	1,440.8
All Other	720.9	741.5	668.6	671.7	627.5	706.8	8,359.0
Domestic	414.2	449.2	407.7	427.4	414.3	422.1	5,157.6
Export	306.7	292.3	260.9	244.3	213.2	284.7	3,201.4
TOTAL PAPERBOARD	3,148.0	3,277.0	3,116.0	3,169.5	3,060.9	3,167.7	37,438.8

NOTE: Totals do not add due to rounding.
NOTE: For this table unbleached kraft folding has been included in the "All Other" domestic data.

TABLE IX (Cont.)

BOX PLANT CONSUMPTION

BY MONTHS

1967

TONS

	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Linerboard and Corrugating Material	1,946.3	1,909.1	1,957.6	2,110.6	1,678.7	1,750.4	22,361.9
Total Containerboard	1,948.9	1,911.2	1,960.1	2,113.1	1,681.7	1,753.8	22,393.4

SOURCE: Box Plant Consumption - Fibre Box Association

TABLE X

PAPER AND PAPERBOARD

PRODUCTION, NEW SUPPLY AND NEW SUPPLY/REAL G.N.P.

1960-1987

000 Short Tons	1960	1961	1962	1963	1964	1965	1966
Production - Total	**33,904**	**35,178**	**37,062**	**38,647**	**40,962**	**43,455**	**46,702**
Total Paper	15,295	15,821	16,560	17,320	18,112	19,157	20,725
Total Paperboard	15,926	16,727	17,847	18,594	19,954	21,332	23,179
Unbleached Kraft	5,342	5,814	6,316	6,750	7,600	8,301E	9,303E
Semichemical	1,791	2,017	2,198	2,304	2,481	2,681E	2,969E
Bleached Kraft	2,039	2,218	2,429	2,539	2,666	2,818E*	3,053E*
Recycled	6,754	6,678	6,905	7,001	7,207	7,532E	7,853E
Wet Machine Board	175	155	146	141	148	144	148
Building Paper	1,410	1,391	1,429	1,453	1,533	1,574	1,495
Insulating Board	1,098	1,084	1,080	1,139	1,215	1,248	1,155
New Supply							
Total Paper	20,490	20,928	21,781	22,475	23,748	25,197	27,323
Newsprint	7,329	7,294	7,460	7,498	8,051	8,510	9,268
Printing/Writing Papers	7,077	7,329	7,772	8,153	8,655	9,348	10,362
Uncoated Groundwood	960	933	942	990	1,053	1,069	1,217
Coated	2,096	2,138	2,266	2,398	2,572	2,767	3,039
Uncoated Free Sheet	3,076	3,239	3,431	3,609	3,824	4,198	4,676
Thin and Cotton Fiber	251	260	290	287	301	314	351
Bleached Bristols	694	759	843	869	905	1,000	1,079
Packaging and Ind. Conv. Papers	3,893	3,997	4,143	4,258	4,316	4,473	4,610
Unbleached Kraft	2,730	2,767	2,889	3,024	3,038	3,150	3,269
Other	1,163	1,230	1,254	1,234	1,278	1,323	1,341
Tissue	2,191	2,305	2,406	2,566	2,725	2,866	3,083
Total Paperboard	15,475	16,201	17,312	17,941	18,976	20,301	22,063
Unbleached Kraft	4,970	5,417	5,890	6,254	6,843	7,401	8,332
Semichemical	1,760	1,955	2,154	2,221	2,374	2,626	2,905
Bleached Board	2,016	2,186	2,396	2,500	2,621	2,771	2,994
Recycled	6,729	6,643	6,872	6,966	7,138	7,503	7,832
Construction and Other	2,675	2,610	2,644	2,733	2,917	2,972	2,791
Total All Grades	**38,640**	**39,739**	**41,737**	**43,149**	**45,641**	**48,470**	**52,175**
Paper and Products	20,441	20,953	21,794	22,438	23,689	25,130	27,386
Paperboard and Products	15,401	16,083	17,178	17,810	18,871	20,168	21,940
Total including Products	**38,517**	**39,646**	**41,616**	**42,981**	**45,477**	**48,270**	**52,117**
Real G.N.P.- $ Bil., 1982 Prices Revised Series	**1,665.3**	**1,708.7**	**1,799.4**	**1,873.3**	**1,973.3**	**2,087.6**	**2,208.3**
Ratio of New Supply to Real GNP - Revised							
Total Paper	12.304	12.248	12.105	11.998	12.035	12.070	12.373
Newsprint	4.401	4.269	4.146	4.003	4.080	4.076	4.197
Printing/Writing Papers	4.250	4.289	4.319	4.352	4.386	4.478	4.692
Uncoated Groundwood	0.576	0.546	0.524	0.528	0.534	0.512	0.551
Coated	1.259	1.251	1.259	1.280	1.303	1.325	1.376
Uncoated Free Sheet	1.847	1.896	1.907	1.927	1.938	2.011	2.117
Thin and Cotton Fiber	0.151	0.152	0.161	0.153	0.153	0.150	0.159
Bleached Bristols	0.417	0.444	0.468	0.464	0.459	0.479	0.489
Packaging and Ind. Conv. Papers	2.338	2.339	2.302	2.273	2.187	2.143	2.088
Unbleached Kraft	1.639	1.619	1.606	1.614	1.540	1.509	1.480
Other	0.698	0.720	0.697	0.659	0.648	0.634	0.607
Tissue	1.316	1.349	1.337	1.370	1.381	1.373	1.396
Total Paperboard	9.293	9.481	9.621	9.577	9.616	9.725	9.991
Unbleached Kraft	2.984	3.170	3.273	3.338	3.468	3.545	3.773
Semichemical	1.057	1.144	1.197	1.186	1.203	1.258	1.315
Bleached Board	1.211	1.279	1.332	1.335	1.328	1.327	1.356
Recycled	4.041	3.888	3.819	3.719	3.617	3.594	3.547
Construction and Other	1.606	1.527	1.469	1.459	1.478	1.424	1.264
Total All Grades	**23.203**	**23.257**	**23.195**	**23.034**	**23.129**	**23.218**	**23.627**
Paper and Products	12.275	12.263	12.112	11.978	12.005	12.038	12.401
Paperboard and Products	9.248	9.412	9.547	9.507	9.563	9.661	9.935
Total Including Products	**23.129**	**23.202**	**23.128**	**22.944**	**23.046**	**23.122**	**26.600**

* - About 5% of this total is bleached bristols that may also be included in total paper.

NOTE: The new supply data in this table are based upon the shipments data shown in Table I and in part, on the import-export data as reported by the Bureau of the Census and published in the current and earlier issues of the Statistics of Paper and Paperboard. Imports of newsprint, uncoated groundwood paper, coated paper and uncoated free sheet paper have been adjusted to reflect Canadian data on shipments of the grades to the United States. New supply of paper and products and paperboard and products was calculated using the Census import and export totals for all grades. See Tables XXXV and XXXVI for the adjusted import and export data used. E - Estimate

TABLE X (Cont.)

PAPER AND PAPERBOARD

PRODUCTION, NEW SUPPLY AND NEW SUPPLY/REAL G.N.P.

1960-1987

000 Short Tons	1967	1968	1969	1970	1971	1972	1973
Production - Total	**46,568**	**50,133**	**52,914**	**51,670**	**53,162**	**57,435**	**59,901**
Total Paper	20,926	22,181	23,449	23,351	23,722	25,359	26,797
Total Paperboard	22,819	24,890	26,362	25,367	26,019	28,484	29,550
Unbleached Kraft	9,485E	10,762	11,816	11,541	11,800	13,269	13,563
Semichemical	3,057E	3,475	3,697	3,518	3,700	4,010	4,260
Bleached Kraft	3,060E*	3,310	3,527	3,327	3,363	3,667	3,842
Recycled	7,217E	7,343	7,322	6,981	7,156	7,538	7,885
Wet Machine Board	144	155	148	139	138	148	149
Building Paper	1,503	1,574	1,603	1,594	1,837	1,915	1,858
Insulating Board	1,176	1,333	1,352	1,219	1,446	1,529	1,547
New Supply							
Total Paper	27,231	28,277	29,973	29,650	30,085	32,035	34,028
Newsprint	9,165	9,307	9,959	9,797	9,773	10,269	10,877
Printing/Writing Papers	10,208	10,502	11,218	11,016	11,296	12,312	13,495
Uncoated Groundwood	1,163	1,219	1,306	1,310	1,324	1,334	1,388
Coated	3,041	3,045	3,240	3,168	3,124	3,412	3,711
Uncoated Free Sheet	4,584	4,769	5,163	5,098	5,413	5,996	6,729
Thin and Cotton Fiber	345	351	371	353	338	390	410
Bleached Bristols	1,077	1,118	1,138	1,087	1,096	1,180	1,257
Packaging and Ind. Conv. Papers	4,645	5,033	5,205	5,139	5,199	5,497	5,640
Unbleached Kraft	3,233	3,494	3,602	3,582	3,598	3,791	3,916
Other	1,412	1,539	1,603	1,557	1,601	1,706	1,724
Tissue	3,212	3,435	3,591	3,698	3,817	3,957	4,016
Total Paperboard	21,498	23,310	24,514	23,478	23,921	26,261	27,567
Unbleached Kraft	8,317	9,388	10,136	9,858	9,976	11,382	11,972
Semichemical	2,981	3,381	3,645	3,434	3,596	3,898	4,153
Bleached Board	2,999	3,202	3,419	3,213	3,207	3,449	3,561
Recycled	7,201	7,339	7,314	6,973	7,142	7,532	7,881
Construction and Other	2,827	3,073	3,105	2,972	3,467	3,650	3,604
Total All Grades	**51,554**	**54,660**	**57,592**	**56,100**	**57,473**	**61,946**	**65,199**
Paper and Products	27,238	28,317	30,016	29,780	30,389	32,265	34,060
Paperboard and Products	21,369	22,991	24,300	23,216	23,595	26,123	27,340
Total including Products	**51,434**	**54,351**	**57,421**	**55,968**	**57,451**	**62,038**	**65,003**
Real G.N.P.- $ Bil., 1982 Prices Revised Series	**2,271.3**	**2,365.6**	**2,423.3**	**2,416.7**	**2,484.8**	**2,608.5**	**2,744.1**
Ratio of New Supply to Real GNP - Revised							
Total Paper	11.989	11.953	12.369	12.269	12.107	12.281	12.400
Newsprint	4.035	3.934	4.110	4.054	3.933	3.937	3.964
Printing/Writing Papers	4.494	4.439	4.629	4.558	4.546	4.720	4.918
Uncoated Groundwood	0.512	0.515	0.539	0.542	0.533	0.511	0.506
Coated	1.339	1.287	1.337	1.311	1.257	1.308	1.352
Uncoated Free Sheet	2.018	2.016	2.131	2.109	2.179	2.299	2.452
Thin and Cotton Fiber	0.152	0.148	0.153	0.146	0.136	0.150	0.149
Bleached Bristols	0.474	0.473	0.470	0.450	0.441	0.452	0.458
Packaging and Ind. Conv. Papers	2.045	2.128	2.148	2.126	2.092	2.107	2.055
Unbleached Kraft	1.423	1.477	1.486	1.482	1.448	1.453	1.427
Other	0.622	0.651	0.661	0.644	0.644	0.654	0.628
Tissue	1.414	1.452	1.482	1.530	1.536	1.517	1.464
Total Paperboard	9.465	9.854	10.116	9.715	9.627	10.067	10.046
Unbleached Kraft	3.662	3.969	4.183	4.079	4.015	4.363	4.363
Semichemical	1.312	1.429	1.504	1.421	1.447	1.494	1.513
Bleached Board	1.320	1.354	1.411	1.329	1.291	1.322	1.298
Recycled	3.170	3.102	3.018	2.885	2.874	2.887	2.872
Construction and Other	1.245	1.299	1.281	1.230	1.395	1.399	1.313
Total All Grades	**22.698**	**23.106**	**23.766**	**23.213**	**23.130**	**23.748**	**23.760**
Paper and Products	11.992	11.970	12.386	12.322	12.230	12.369	12.412
Paperboard and Products	9.408	9.706	10.028	9.607	9.496	10.014	9.963
Total Including Products	**22.645**	**22.976**	**23.695**	**23.159**	**23.121**	**23.783**	**23.688**

* - About 5% of this total is bleached bristols that may also be included in total paper
E - Estimate

TABLE X (Cont.)

PAPER AND PAPERBOARD

PRODUCTION, NEW SUPPLY AND NEW SUPPLY/REAL G.N.P.

1960-1987

000 Short Tons	1974	1975	1976	1977	1978	1979	1980
Production - Total	**59,041**	**50,976**	**58,327**	**60,040**	**62,048**	**64,345**	**63,600**
Total Paper	26,863	23,260	26,577	27,721	28,320	29,666	30,116
Total Paperboard	28,894	24,737	28,415	28,935	30,252	31,404	30,926
Unbleached Kraft	13,333	11,543	13,332	13,651	14,373	15,151	15,295
Semichemical	4,175	3,702	4,105	4,264	4,439	4,689	4,724
Bleached Kraft	3,752	3,324	3,820	3,703	3,955	3,973	3,836
Recycled	7,634	6,168	7,158	7,317	7,485	7,591	7,071
Wet Machine Board	144	115	130	129	136	144	138
Building Paper	1,845	1,615	1,771	1,852	1,915	1,868	1,369
Insulating Board	1,295	1,249	1,434	1,403	1,425	1,263	1,051
New Supply							
Total Paper	34,045	28,264	32,513	34,163	35,992	37,449	37,125
Newsprint	10,955	9,048	9,917	10,081	10,788	11,159	11,377
Printing/Writing Papers	13,571	10,934	13,281	14,236	15,244	16,079	16,123
Uncoated Groundwood	1,460	1,317	1,588	1,794	1,907	2,123	2,086
Coated	3,693	3,037	3,842	4,223	4,540	4,588	4,644
Uncoated Free Sheet	6,794	5,295	6,439	6,793	7,230	7,891	8,015
Thin and Cotton Fiber	401	334	363	384	435	468	415
Bleached Bristols	1,223	950	1,049	1,087	1,132	1,010	964
Packaging and Ind. Conv. Papers	5,587	4,334	5,151	5,577	5,754	5,701	5,243
Unbleached Kraft	3,951RS	3,070	3,598	3,720	3,884	3,935	3,707
Other	1,636RS	1,264	1,553	1,857*	1,870*	1,766	1,536
Tissue	4,062	3,948	4,164	4,269	4,206	4,510	4,382
Total Paperboard	26,799	23,292	26,720	27,132	28,311	29,225	27,689
Unbleached Kraft	11,760	10,485	12,089	12,376	12,938	13,532	12,958
Semichemical	4,030	3,587	3,986	4,142	4,320	4,624	4,433
Bleached Board	3,432	3,068	3,514	3,314	3,522	3,477	3,287
Recycled	7,557	6,152	7,131	7,300	7,531	7,592	7,011
Construction and Other	3,301	3,001	3,367	3,464	3,737	3,598	2,968
Total All Grades	**64,125**	**54,557**	**62,600**	**64,759**	**68,040**	**70,272**	**67,782**
Paper and Products	33,740	28,317	32,509	34,099	36,177	37,383	37,028
Paperboard and Products	26,267	22,792	26,137	26,678	27,873	28,815	27,172
Total Including Products	**63,308**	**54,110**	**62,013**	**64,241**	**67,787**	**69,796**	**67,168**
Real G.N.P.- $ Bil.,1982 Prices Revised Series	**2,729.3**	**2,695.0**	**2,826.7**	**2,958.6**	**3,115.2**	**3,192.4**	**3,187.1**
Ratio of New Supply to Real G.N.P							
Total Paper	12.474	10.488	11.502	11.547	11.554	11.731	11.649
Newsprint	3.966	3.357	3.508	3.407	3.463	3.495	3.570
Printing/Writing Papers	4.972	4.057	4.698	4.812	4.893	5.037	5.059
Uncoated Groundwood	0.535	0.489	0.562	0.591	0.612	0.665	0.655
Coated	1.353	1.127	1.359	1.427	1.457	1.437	1.457
Uncoated Free Sheet	2.489	1.965	2.278	2.296	2.321	2.472	2.515
Thin and Cotton Fiber	0.147	0.124	0.128	0.130	0.140	0.147	0.130
Bleached Bristols	0.448	0.353	0.371	0.367	0.363	0.316	0.302
Packaging and Ind. Conv. Papers	2.047	1.608	1.822	1.885	1.847	1.786	1.645
Unbleached Kraft	1.448	1.139	1.273	1.257	1.247	1.233	1.163
Other	0.599	0.469	0.549	0.628	0.600	0.553	0.482
Tissue	1.488	1.465	1.473	1.443	1.350	1.413	1.375
Total Paperboard	9.812	8.643	9.453	9.171	9.088	9.155	8.688
Unbleached Kraft	4.309	3.891	4.277	4.183	4.153	4.239	4.066
Semichemical	1.477	1.331	1.410	1.400	1.387	1.448	1.391
Bleached Board	1.257	1.138	1.243	1.120	1.131	1.089	1.031
Recycled	2.769	2.283	2.523	2.467	2.418	2.378	2.200
Construction and Other	1.209	1.114	1.191	1.171	1.200	1.127	0.931
Total All Grades	**23.495**	**20.244**	**22.146**	**21.888**	**21.841**	**22.012**	**21.268**
Paper and Products	12.362	10.507	11.501	11.525	11.613	11.710	11.618
Paperboard and Products	9.624	8.457	9.247	9.017	8.947	9.026	8.525
Total Including Products	**23.196**	**20.078**	**21.938**	**21.713**	**21.760**	**21.863**	**21.075**

NOTE: The new supply data in this table are based upon the shipments data shown in Table I and the import-export data as reported by the Bureau of the Census and published in the current and earlier issues of the Statistics of Paper and Paperboard. Imports of newsprint, uncoated groundwood paper, coated paper and uncoated free sheet paper have been adjusted to reflect Canadian data on shipments of these grades to the United States. New supply of paper and products and of paperboard and products was calculated using Census import and export totals for all grades. See Tables XXXV and XXXVI for the adjusted import and export data used. RS - Revised Series

* Data overstated by about 10%, as indicated by revision of 1979 data in 1980 report.

TABLE X (Cont.)

PAPER AND PAPERBOARD

PRODUCTION, NEW SUPPLY AND NEW SUPPLY/REAL G.N.P.

1960-1987

000 Short Tons	1981R	1982R	1983R	1984R	1985R	1986R	1987P
Production - Total	**64,259**	**60,958**	**66,761**	**70,268**	**68,658**	**72,489**	**76,029**
Total Paper	30,901	30,252	32,816	34,466	34,036	35,510	36,990
Total Paperboard	31,208	29,044	32,145	34,002	32,922	35,379	37,439
Unbleached Kraft	15,602	14,535	16,122	17,185	16,368	17,689	18,913
Semichemical	4,719	4,389	4,730	5,169	5,088	5,376	5,600
Bleached Kraft	3,886	3,644	3,895	4,011	3,911	4,222	4,420
Recycled	7,001	6,476	7,398	7,637	7,555	8,092	8,506
Wet Machine Board	160	129	140	140	130	130	130
Building Paper	1,144	798	760	700	680	600	600
Insulating Board	846	735	900	960	890	870	870
New Supply							
Total Paper	37,547	36,617	40,229	43,576	43,518	45,270	47,562
Newsprint	11,694	10,948	11,597	12,722	12,838	12,994	13,707
Printing/Writing Papers	16,139	16,234	18,508	20,473	20,569	22,056	23,451
Uncoated Groundwood	2,001	2,068	2,414	2,833	2,871	3,026	3,167
Coated	4,843	4,979	5,799	6,592	6,289	6,686	7,433
Uncoated Free Sheet	7,870	7,896	8,889	9,546	10,005	10,836	11,342
Thin and Cotton Fiber	439	394	423	478	413	449	439
Bleached Bristols	986	897	983	1,024	991	1,059	1,070
Packaging and Ind. Conv. Papers	5,241	5,014	5,340	5,447	5,133	5,076	5,083
Unbleached Kraft	3,654	3,497	3,591	3,620	3,399	3,340	3,154
Other	1,587	1,517	1,749	1,827	1,734	1,736	1,929
Tissue	4,473	4,421	4,784	4,934	4,978	5,144	5,321
Total Paperboard	28,717	26,504	29,301	31,515	30,595	32,565	34,559
Unbleached Kraft	13,764	12,639	13,890	15,169	14,589	15,522	16,676
Semichemical	4,616	4,251	4,607	5,124	4,964	5,263	5,500
Bleached Board	3,330	3,119	3,380	3,533	3,445	3,654	3,801
Recycled	7,007	6,495	7,424	7,689	7,597	8,126	8,582
Construction and Other	2,468	2,025	2,210	2,222	2,048	1,845	1,802
Total All Grades	**68,732**	**65,146**	**71,740**	**77,313**	**76,161**	**79,680**	**83,923**
Paper and Products	37,333	36,569	40,045	43,667	43,916	45,673	47,901
Paperboard and Products	28,156	26,143	28,925	31,068	30,144	32,220	33,859
Total Including Products	**67,957**	**64,737**	**71,180**	**76,957**	**76,108**	**79,738**	**83,562**
Real G.N.P.- $ Bil., 1982 Prices	**3,248.7**	**3,166.0**	**3,279.1**	**3,501.4**	**3,618.7**	**3,721.7**	**3847.0**
Revised Series							
Ratio of New Supply to Real G.N.P.							
Total Paper	11.558	11.566	12.268	12.445	12.026	12.164	12.364
Newsprint	3.600	3.458	3.537	3.633	3.548	3.491	3.563
Printing/Writing Papers	4.968	5.127	5.644	5.847	5.684	5.926	6.096
Uncoated Groundwood	0.616	0.653	0.736	0.809	0.793	0.813	0.823
Coated	1.491	1.573	1.768	1.883	1.738	1.796	1.932
Uncoated Free Sheet	2.423	2.494	2.711	2.726	2.765	2.911	2.948
Thin and Cotton Fiber	0.135	0.125	0.129	0.137	0.114	0.121	0.114
Bleached Bristols	0.304	0.283	0.300	0.292	0.274	0.285	0.278
Packaging and Ind. Conv. Papers	1.613	1.584	1.628	1.556	1.418	1.364	1.321
Unbleached Kraft	1.125	1.105	1.095	1.034	0.939	0.897	0.820
Other	0.489	0.479	0.533	0.522	0.479	0.466	0.501
Tissue	1.377	1.396	1.459	1.409	1.376	1.382	1.383
Total Paperboard	8.840	8.371	8.936	9.001	8.455	8.750	8.983
Unbleached Kraft	4.237	3.992	4.236	4.332	4.032	4.171	4.335
Semichemical	1.421	1.343	1.405	1.463	1.372	1.414	1.430
Bleached Board	1.025	0.985	1.031	1.009	0.952	1.982	0.988
Recycled	2.157	2.051	2.264	2.196	2.099	2.183	2.231
Construction and Other	0.760	0.640	0.674	0.635	0.566	0.496	0.468
Total All Grades	**21.157**	**20.577**	**21.878**	**22.080**	**21.046**	**21.409**	**21.815**
Paper and Products	11.492	11.551	12.212	12.471	12.136	12.272	12.451
Paperboard and Products	8.667	8.258	8.821	8.873	8.330	8.657	8.801
Total Including Products	**20.918**	**20.448**	**21.707**	**21.979**	**21.032**	**21.425**	**21.721**

* Data overstated by about 10%, as indicated by revision of 1979 data in 1980 report

R - Revised P - Preliminary E - Estimated by API

TABLE XI

UNITED STATES CAPACITY TO PRODUCE PAPER AND BOARD

1975 - 1990

(THOUSANDS OF TONS)

	1975	1976	1977	1978	1979	1980	1981	1982
TOTAL PAPER AND BOARD	**64,369**	**65,673**	**66,459**	**67,419**	**69,033**	**70,716**	**72,255**	**73,118**
Total Paper	**28,922**	**29,210**	**29,831**	**30,460**	**31,179**	**32,659**	**33,706**	**34,665**
Newsprint #	3,848	4,014	4,069	4,104	4,199	4,836	5,457	5,654
Total Printing, Writing & Related	14,275	14,494	14,975	15,566	16,057	16,798	17,302	17,809
Groundwood Uncoated #	1,329	1,309	1,367	1,453	1,541	1,624	1,625	1,655
Coated Papers - Total	4,065	4,202	4,397	4,546	4,822	4,984	5,292	5,516
Coated Groundwood	2,127	2,299	2,408	2,450	2,554	2,762	3,047	3,242
Coated Free Sheet	1,938	1,903	1,989	2,096	2,268	2,222	2,245	2,274
Uncoated Free Sheet	7,180	7,319	7,465	7,847	8,152	8,645	8,828	9,039
Cotton Fiber	139	142	133	131	134	139	147	161
Thin	367	358	402	395	393	382	374	369
Solid Bleached Bristols	1,194	1,165	1,213	1,194	1,016	1,024	1,035	1,069
Total Packaging & Ind. Conv.	6,368	6,202	6,242	6,146	6,053	6,072	5,913	6,076
Unbleached Kraft	4,333	4,218	4,317	4,223	4,098	4,110	3,961	4,091
Bleached Pkg. & Ind. Conv.	1,194**	1,128	1,069	1,041	1,105	1,095	1,083	1,080
Specialty Pkg	N.A.	N.A.	N.A.	N.A.	N.A.	597	554	553
Other	N.A.	N.A.	N.A.	N.A.	N.A.	498	529	527
Special Industrial	841	856	856	883	850	866	870	906
Tissue	4,432	4,500	4,545	4,644	4,870	4,954	5,035	5,125
Total Paperboard	**31,218**	**32,097**	**32,173**	**32,631**	**33,436**	**33,709**	**34,466**	**35,421**
Total Unbleached Kraft Packaging & Industrial Converting	14,157	14,568	14,793	15,054	15,546	15,967	16,738	17,402
Linerboard	13,138	13,448	13,586	13,864	14,199	14,586	15,372	16,032
Folding Boxboard	484	595	645	650	827	852	799	860
Other	536	525	561	540	520	529	567	509
Total Bleached								
Packaging Paperboard	3,807	3,998	4,020	4,197	4,268	4,180	4,141	4,123
Folding Boxboard	1,751	1,915	1,930	1,996	2,061	1,954	1,966	1,988
Milk Carton & Food Service	1,859	1,854	1,824	1,899	1,877	1,865	1,839	1,812
Linerboard	95	101	97	122	137	116	106	104
Other	102	128	170	179	193	246	230	219
Semichemical Paperboard	4,536	4,758	4,661	4,739	4,864	4,946	4,988	5,207
Total Recycled Paperboard	8,717	8,774	8,699	8,642	8,757	8,617	8,599	8,690
Linerboard	364	361	392	361	432	509	463	379
Corrugating Medium	1,449	1,476	1,337	1,343	1,392	1,330	1,349	1,478
Container Chip & Filler	408	398	403	311	287	283	309	273
Folding	2,658	2,705	2,674	2,568	2,615	2,593	2,633	2,676
Set-Up	465	450	443	418	404	349	335	331
Gypsum Wall Board Facing	1,063	1,046	1,112	1,238	1,273	1,238	1,251	1,255
Other	2,310	2,337	2,337	2,403	2,355	2,313	2,260	2,298
Total Paper and Paperboard	**60,140**	**61,307**	**62,004**	**63,091**	**64,615**	**66,368**	**68,172**	**70,086**
Total Wet Machine Board	**217**	**216**	**180**	**145**	**154**	**163**	**157**	**160**
Total Construction Paper & Board	**4,011**	**4,149**	**4,276**	**4,182**	**4,265**	**4,184**	**3,926**	**2,718**
Construction Paper	2,270	2,317	2,364	2,352	2,380	2,345	2,111	1,306
Insulating Board	1,741	1,832	1,912	1,830	1,885	1,839	1,815	1,566
Total Hard Pressed Board ###	**2,460**	**2,511**	**2,536##**	**2,525##**	**2,556##**	**2,556##**	**N.A.**	**N.A.**

SOURCE: American Paper Institute, Paper, Paperboard and Wood Pulp Capacity Survey, various issues to October 1987.

N.A. - Not Available

* - Average basis weight changed from 32 lbs. to 30 lbs. during 1975.

** - Reflects shift of about 215,000 tons of bleached kraft envelope paper to uncoated free sheet in 1975 and later years.

\# - Not directly comparable with shipments data in Table II in 1972-1977 because of redefinition of certain grades from uncoated groundwood paper to newsprint.

- As reported in 1976 Capacity Survey.

- Hard Pressed Board not included in Total Paper and Board.

TABLE XI (Cont.)

UNITED STATES CAPACITY TO PRODUCE PAPER AND BOARD

1975 - 1990

(THOUSANDS OF TONS)

	1983	1984	1985	1986	1987F	1988F	1989F	1990F
TOTAL PAPER AND BOARD	**74,017**	**75,943**	**76,622**	**77,921**	**80,149**	**81,927**	**83,975**	**86,232**
Total Paper	**35,675**	**37,106**	**37,581**	**38,014**	**39,336**	**40,278**	**41,437**	**42,687**
Newsprint	5,774	5,851	5,788	5,804	5,941	6,013	6,099	6,636
Total Printing, Writing & Related	18,633	19,890	20,463	20,980	22,168	22,832	23,727	24,393
Groundwood Uncoated	1,710	1,704	1,710	1,685	1,756	1,865	1,882	1,917
Coated Papers-Total	5,995	6,557	6,665	6,743	7,369	7,644	8,111	8,389
Coated Groundwood	3,522	3,766	3,820	3,799	4,132	4,251	4,344	4,509
Coated Free Sheet	2,473	2,791	2,845	2,944	3,237	3,393	3,767	3,880
Uncoated Free Sheet	9,354	10,058	10,515	11,023	11,520	11,780	12,190	12,543
Cotton Fiber	162	181	187	192	196	197	198	199
Thin	347	338	326	312	309	309	309	309
Solid Bleached Bristols	1,065	1,051	1,059	1,025	1,018	1,038	1,037	1,036
Total Packaging & Ind Conv.	6,078	6,088	5,985	5,758	5,592	5,662	5,687	5,702
Unbleached Kraft	4,065	3,972	3,808	3,579	3,370	3,416	3,430	3,438
Bleached Pkg. & Ind. Conv.	1,119	1,148	1,104	1,092	1,101	1,100	1,099	1,098
Specialty Pkg.	569	599	519	554	570	570	569	568
Other	550	549	585	538	531	530	530	530
Special Industrial	894	968	1,074	1,086	1,122	1,147	1,158	1,167
Tissue	5,190	5,276	5,345	5,472	5,635	5,771	5,924	5,955
Total Paperboard	**35,451**	**35,992**	**36,720**	**37,763**	**38,685**	**39,521**	**40,410**	**41,417**
Total Unbleached Kraft Packaging & Industrial Converting	17,511	17,834	18,144	18,622	19,117	19,596	20,193	21,088
Linerboard	16,217	16,565	16,739	17,175	17,704	18,071	18,633	19,195
Folding Boxboard	800	792	905	946	983	1,096	1,130	1,463
Other	493	477	500	501	430	430	430	430
Total Bleached Packaging Paperboard	4,129	4,185	4,370	4,576	4,675	4,768	4,854	4,866
Folding Boxboard	1,992	2,095	2,223	2,341	2,406	2,481	2,544	2,543
Milk Carton & Food Service	1,812	1,771	1,843	1,926	1,952	1,969	1,988	1,998
Linerboard	111	119	131	135	137	138	143	146
Other	215	200	173	175	180	180	180	180
Semichemical Paperboard	5,119	5,252	5,411	5,557	5,641	5,711	5,863	5,934
Total Recycled Paperboard	8,692	8,722	8,795	9,008	9,252	9,446	9,500	9,529
Linerboard	395	393	422	467	540	587	596	596
Corrugating Medium	1,427	1,524	1,523	1,580	1,666	1,752	1,764	1,774
Container Chip & Filler	247	228	53#	42	48	50	50	50
Folding	2,671	2,626	2,640	2,662	2,671	2,696	2,707	2,713
Set-Up	324	296	269	272	270	271	272	273
Gypsum Wall Board Facing	1,217	1,249	1,265	1,349	1,385	1,394	1,402	1,406
Other	2,412	2,405	2,603#	2,637	2,672	2,696	2,709	2,716
Total Paper and Paperboard	**71,126**	**73,098**	**74,301**	**75,777**	**78,021**	**79,799**	**81,847**	**84,104**
Total Wet Machine Board	**173**	**170**	**160**	**154**	**152**	**152**	**152**	**152**
Total Construction Paper & Board	**2,676**	**2,227**	**2,161**	**1,990**	**1,976**	**1,976**	**1,976**	**1,976**
Construction Paper	1,234	1,227	937	834	826	826	826	826
Insulating Board	1,484	1,449	1,224	1,156	1,150	1,150	1,150	1,150

SOURCE: American Paper Institute, Paper, Paperboard and Wood Pulp Capacity Survey various issues to October 1987.
F - Forecast as reported in October 1987 Capacity Survey
N.A. - Not Available # - Reflects shift of 160,000 on non-containerboard grade to "other" recycled paperboard.

TABLE XII

WOOD PULP CAPACITY

1975 - 1990

(Thousands of Tons)

	1975	1976	1977	1978	1979	1980	1981	1982
TOTAL ALL GRADES (1)	**48,502**	**50,547**	**51,849**	**51,714**	**53,636**	**55,214**	**56,831**	**57,638**
Dissolving and Special Alpha	1,671	1,571	1,648	1,573	1,551	1,590	1,598	1,606
Chemical Paper Grades	37,411	38,292	39,174	39,997	40,897	41,893	43,143	43,971
Sulfite, Paper Grades Total	2,420	2,417	2,252	2,095	2,004	1,909	1,855	1,780
Bleached	1,993	1,972	1,812	1,675	1,595	1,512	1,464	1,383
Unbleached	427	445	440	420	409	397	391	397
Sulfate and Soda Total	34,991	35,875	36,922	37,903	38,893	39,983	41,288	42,191
Bleached Total	14,764	15,042	15,822	18,171	18,969	19,695	20,316	20,757
Hardwood	7,201	7,208	7,310	7,729	8,072	8,356	8,559	8,705
Softwood	7,563	7,835	8,512	10,442	10,897	11,339	11,757	12,052
Semi-Bleached Total	1,469	1,539	1,547	(2)	(2)	(2)	(2)	(2)
Hardwood	7	19	12					
Softwood	1,462	1,520	1,536					
Unbleached	18,758	19,293	19,552	19,732	19,923	20,288	20,972	21,435
Semichemical Total	4,246	4,402	4,514	4,572	4,553	4,601	4,597	4,734
Bleached	334	345	345	339	336	384	350	356
Unbleached	3,912	4,057	4,169	4,234	4,217	4,217	4,247	4,378
Mechanical Total (Groundwood)	6,090	6,204	6,442	6,507	6,572	7,069	7,434	7,293
For Paper and Board	4,247	4,416	4,502	4,580	4,573	5,070	5,494	5,780
Stone Groundwood	3,615	3,540	3,397	3,328	3,255	3,212	3,239	3,260
Refiner	500	543	538	533	507	486	489	472
Thermo-Mechanical	131	333	567	719	811	1,371	1,766	2,048
For Other Paper and Board	1,843	1,788	1,939	1,926	1,999	1,999	1,940	1,513
Stone and Refiner	523	537	525	529	594	647	651	628
Defibrated and Exploded	1,320E	1,251E	1,414	1,397	1,406	1,352	1,289	885
Screenings	84	78	71	65	63	61	58	34
MARKET PULP								
Total All Grades	**5,412**	**5,407**	**5,467**	**5,746**	**6,334**	**6,801**	**6,972**	**7,079**
Dissolving	1,488	1,421	1,611	1,573	1,551	1,576	1,579	1,598
Chemical Paper Grades	3,924	3,986	3,856	4,069	4,632	5,129	5,375	5,469
Sulfate	3,430	3,311	3,444	3,760	4,332	4,761	5,034	5,182
Bl. and Semi-Bleached	3,218	3,194	3,280	3,653	4,228	4,589	4,867	5,040
Unbleached	212	218	164	107	104	172	167	142
Sulfite	460	459	301	309	350	369	341	288
All Other	34	116	111	104	101	96	17	12

\- No Data Available

(1) Excludes defribrated and exploded wood pulp for hard pressed board as folows: 2,425 2,500 2,500 N.A. N.A. N.A. N.A. N.A.

(2) Semi-Bleached Total included with Bleached.

E - Estimate

N.A.- Not available

TABLE XII (Cont.)

WOOD PULP CAPACITY

1975 - 1990

(Thousands of Tons)

	1983	1984	1985	1986R	1987F	1988F	1989F	1990F
TOTAL ALL GRADES (1)	**57,590**	**59,001**	**59,615**	**60,686**	**61,715**	**62,730**	**63,951**	**65,309**
Dissolving and Special Alpha	1,525	1,487	1,454	1,399	1,382	1,395	1,395	1,396
Chemical Paper Grades	44,284	45,479	46,544	47,655	48,467	49,310	50,312	51,236
Sulfite, Paper Grades Total	1,788	1,750	1,738	1,703	1,616	1,572	1,572	1,572
Bleached	1,404	1,445	1,482	1,502	1,426	1,382	1,382	1,382
Unbleached	385	305	256	201	190	190	190	190
Sulfate and Soda Total	42,495	43,729	44,806	45,952	46,851	47,737	48,740	49,663
Bleached and Semi-Bleached - Total	21,290	22,357	23,624	24,571	25,278	25,695	26,409	26,754
Hardwood	9,179	9,867	10,750	11,402	11,817	12,059	12,543	12,767
Softwood	12,111	12,490	12,874	13,169	13,461	13,636	13,866	13,987
Unbleached	21,206	21,372	21,182	21,381	21,574	22,042	22,331	22,909
Semichemical Total	4,490	4,625	4,650	4,631	4,627	4,639	4,712	4,746
Bleached	367	381	395	404	408	408	408	408
Unbleached	4,122	4,244	4,255	4,227	4,219	4,231	4,304	4,338
Mechanical Total (Groundwood)	7,261	7,380	6,938	6,994	7,232	7,379	7,524	7,924
For Paper and Board	5,814	6,122	5,964	6,058	6,331	6,478	6,623	7,023
Stone Groundwood	3,146	3,168	3,006	2,996	2,953	3,033	3,113	3,251
Refiner	480	501	459	402	399	399	399	399
Thermo-Mechanical	2,188	2,453	2,499	2,660	2,980	3,047	3,112	3,374
For Other Paper and Board	1,447	1,259	974	936	901	901	901	901
Stone and Refiner	576	469	269	269	271	271	271	271
Defibrated and Exploded	871	789	705	667	630	630	630	630
Screenings	31	29	29	7	7	7	7	7
MARKET PULP								
Total All Grades	**7,414**	**7,530**	**7,989**	**8,039**	**8,165**	**8,400**	**8,454**	**8,444**
Dissolving	1,519	1,487	1,446	1,395	1,376	1,390	1,391	1,391
Chemical Paper Grades	5,881	6,029	6,529	6,630	6,776	6,996	7,049	7,040
Sulfate	5,529	5,727	6,227	6,343	6,491	6,711	6,764	6,755
Bl. and Semi-Bleached	5,372	5,582	6,083	6,198	6,306	6,523	6,577	6,567
Unbleached	157	145	144	145	185	188	188	188
Sulfite	352	302	302	287	285	285	285	285
All Other	14	14	14	14	14	14	14	14

F - Forecast

TABLE XIII

IMPORTS

WOOD PULP, PAPER, PAPERBOARD AND PRODUCTS

1982 - 1987

	1982		1983		1984	
	Tons	$ 000	Tons	$ 000	Tons	$ 000
TOTAL ALL GRADES	**11,754,127**	**5,344,649**	**13,180,285**	**5,650,120**	**15,675,105**	**7,180,256**
WOOD PULP, ALL GRADES, TOTAL	**3,655,786**	**1,493,241**	**4,093,436**	**1,472,478**	**4,490,081**	**1,844,768**
Dissolving and Special Alpha	186,477	77,853	192,317	72,280	161,066	62,186
Sulphite, Paper Grades, Total	329,442	145,373	305,620	124,299	459,810	190,689
Bleached	280,068	125,800	254,546	106,116	395,547	165,435
Unbleached	49,374	19,573	51,074	18,183	64,263	25,254
Sulphate, Paper Grades, Total	2,972,567	1,228,889	3,400,659	1,228,776	3,562,732	1,501,513
Bleached	2,761,314	1,147,304	3,197,550	1,163,186	3,383,516	1,433,377
Semi-Bleached	78,608	33,156	66,996	25,124	46,277	20,601
Unbleached	132,645	48,429	136,113	40,466	132,939	47,535
Soda	**	**	**	**	**	**
Groundwood	144,336	32,861	184,342	43,545	257,543	70,360
Other*	22,964	8,265	10,498	3,577	48,930	20,018
WASTE PAPER	**74,332**	**9,450**	**100,410**	**10,537**	**109,712**	**11,692**
PAPER, PAPERBOARD AND PRODUCTS, TOTAL	**8,024,009**	**3,682,401**	**8,986,439**	**4,018,855**	**11,075,312**	**5,323,796**
PAPER, PAPERBOARD AND OTHER, TOTAL	**7,917,418**	**3,344,205**	**8,834,568**	**3,582,292**	**10,855,990**	**4,782,630**
PAPER, TOTAL#	**7,381,252**	**3,226,307**	**8,189,498**	**3,428,868**	**10,113,718**	**4,592,641**
Newsprint	**6,530,676**	**2,748,652**	**6,919,348**	**2,757,524**	**7,893,877**	**3,299,570**
Printing & Writing Paper, Total	**764,095**	**408,551**	**1,151,011**	**587,426**	**2,044,045**	**1,170,144**
Groundwood, Uncoated	514,882	248,196	732,237	331,017	1,090,049	548,791
Coated and Impregnated Paper	69,010	46,763	162,441	101,289	428,274	295,844
Uncoated Free Sheet	168,519	99,330	235,605	135,350	478,628	285,212
Uncoated Book	142,626	80,105	154,147	88,632	254,926	156,296
Writing Papers	25,893	19,225	81,458	46,718	223,702	128,916
Other Fine Paper	-	-	-	-	-	-
Thin Paper	11,293	13,846	20,258	19,213	46,427	39,513
Bristols	391	416	471	557	667	784
Packaging & Industrial Paper, Total	**79,653**	**63,863**	**107,521**	**75,694**	**145,484**	**102,565**
Unbleached Kraft	23,078	10,749	42,013	17,454	42,854	19,568
Other Packaging & Converting	47,842	38,290	51,982	37,372	83,860	53,927
Glassine & Greaseproof	5,949	8,909	8,159	11,857	11,659	16,506
Vegetable Parchment	172	424	330	602	696	1,000
Special Industrial Paper	2,612	5,491	5,038	8,408	6,415	11,564
Tissue Paper	**6,828**	**5,241**	**11,617**	**8,225**	**30,312**	**20,362**
PAPERBOARD, TOTAL	**114,808**	**29,698**	**167,818**	**46,160**	**242,616**	**73,892**
Test or Containerboard	35,983	8,459	48,119	13,042	70,028	22,218
Semichemical Corrugating	47,295	9,679	69,564	14,509	103,968	26,098
Other Paperboard	31,531	11,560	50,136	18,609	68,620	25,576
WET MACHINE BOARD	**1,842**	**1,239**	**3,584**	**2,422**	**2,826**	**2,017**
CONSTRUCTION PAPER & BOARD, TOTAL	**419,515**	**86,961**	**473,667**	**104,842**	**496,830**	**114,080**
Building Paper	371,186	70,964	393,148	77,004	388,790	77,075
Insulating and Other Building Board	48,330	15,997	80,519	27,837	108,040	37,005
PAPER AND PAPERBOARD PRODUCTS, TOTAL#	**106,591**	**338,196**	**151,872**	**436,563**	**219,322**	**541,166**
PAPER PRODUCTS, TOTAL#	**92,059**	**307,245**	**124,816**	**373,966**	**184,522**	**472,998**
Printing & Book Paper#	30,656	124,667	27,260	119,636	36,947	152,006
Writing & Related Paper	50,275	161,616	82,184	228,078	118,865	275,709
Special Industrial Paper	7,540	15,239	9,032	18,428	12,964	28,709
Tissue Paper	3,588	5,723	6,340	7,824	15,746	16,574
PAPERBOARD PRODUCTS, TOTAL	**14,532**	**30,951**	**27,055**	**62,597**	**34,800**	**68,168**

* Includes Mixtures and Screenings

** Included with Sulphate Pulp Imports

\# Coated and Impregnated Printing Papers included in Primary Coated Papers from 1977 on, in earlier years they were in Paper Products.

NOTE: Dollar figures for the value of shipments for which no tonnage figures were given are shown below. They are not included in the subtotals, but are in the Total All grades: ($ 000)

$159,558	$148,251	$195,737

TABLE XIII (Cont.)

IMPORTS

WOOD PULP, PAPER, PAPERBOARD AND PRODUCTS

1982 - 1987

	1985		1986		1987	
	Tons	$ 000	Tons	$ 000	Tons	$ 000
TOTAL ALL GRADES	**16,074,779**	**7,457,087**	**16,617,525**	**7,860,748**	**17,814,681**	**9,217,766**
WOOD PULP, ALL GRADES, TOTAL	**4,465,746**	**1,520,907**	**4,581,760**	**1,601,378**	**4,850,238**	**2,069,389**
Dissolving and Special Alpha	175,011	58,956	254,699	87,725	197,531	80,701
Sulphite, Paper Grades, Total	424,510	159,609	482,205	168,299	508,560	203,891
Bleached	313,592	125,268	350,520	129,490	352,543	158,234
Unbleached	110,918	34,341	131,685	38,809	156,017	45,657
Sulphate, Paper Grades, Total	3,679,000	1,251,781	3,737,348	1,312,408	3,947,335	1,718,786
Bleached	3,496,344	1,193,242	3,570,693	1,256,971	3,795,005	1,656,510
Semi-Bleached	57,248	19,542	54,385	20,645	56,973	24,804
Unbleached	125,408	38,997	112,270	34,792	95,357	37,478
Soda	**	**	**	**	**	**
Groundwood	111,501	28,662	51,921	13,010	92,558	28,532
Other *	75,724	21,899	55,587	19,936	104,254	37,478
WASTE PAPER	**87,413**	**10,160**	**99,313**	**11,182**	**127,398**	**19,231**
PAPER, PAPERBOARD AND PRODUCTS, TOTAL	**11,521,619**	**5,697,802**	**11,936,452**	**6,035,850**	**12,837,045**	**6,927,694**
PAPER, PAPERBOARD AND OTHER, TOTAL	**11,238,094**	**5,074,482**	**11,546,545**	**5,247,129**	**12,435,486**	**5,995,123**
PAPER, TOTAL#	**10,637,428**	**4,906,882**	**10,925,453**	**5,051,917**	**11,765,207**	**5,768,704**
Newsprint	**8,496,568**	**3,638,716**	**8,587,507**	**3,682,351**	**8,986,548**	**4,121,327**
Printing and Writing Paper, Total	**1,912,867**	**1,116,225**	**2,029,302**	**1,179,802**	**2,410,217**	**1,412,458**
Groundwood, Uncoated	1,027,211	530,619	1,028,231	531,149	1,269,774	654,767
Coated and Impregnated Paper	496,072	363,855	501,382	359,495	674,531	467,865
Uncoated Free Sheet	364,848	198,432	453,638	254,627	417,395	249,943
Book, Uncoated	200,927	106,586	223,798	126,278	210,624	119,775
Writing Papers	163,921	91,846	229,841	128,349	206,771	130,168
Other Fine Paper	-	-	-	-	-	-
Thin Paper	23,712	22,276	45,351	33,831	47,567	38,831
Bristols	1,024	1,043	700	700	950	1,052
Packaging & Industrial Paper, Total	**172,003**	**116,390**	**242,571**	**146,212**	**310,321**	**191,620**
Unbleached Kraft	63,604	23,976	115,008	42,650	168,420	69,828
Other Packaging & Converting	85,052	56,429	101,841	63,002	107,904	65,428
Glassine & Greaseproof	15,027	20,881	15,158	20,822	21,130	31,230
Vegetable Parchment	1,165	1,700	1,412	2,000	1,488	2,398
Special Industrial Paper	7,154	13,405	9,151	17,737	11,379	22,735
Tissue Paper	**55,990**	**35,551**	**66,073**	**43,552**	**58,121**	**43,299**
PAPERBOARD, TOTAL	**184,201**	**55,875**	**281,448**	**87,818**	**360,831**	**127,461**
Test or Containerboard	50,975	16,848	78,063	25,596	80,981	29,352
Semichemical Corrugating	65,203	13,706	99,062	22,092	128,636	33,898
Other Paperboard	68,023	25,321	104,324	40,130	151,214	64,211
WET MACHINE BOARD	**3,270**	**2,585**	**3,235**	**2,525**	**3,463**	**2,638**
CONSTRUCTION PAPER & BOARD, TOTAL	**413,196**	**109,140**	**336,409**	**104,868**	**305,985**	**96,320**
Building Paper	289,195R	68,691	202,336	59,639	198,783	56,532
Insulating and Other Building Board	124,001R	40,449	134,073	45,229	107,202	39,788
PAPER AND PAPERBOARD PRODUCTS, TOTAL#	**283,526**	**623,320**	**389,907**	**788,721**	**401,559**	**932,571**
PAPER PRODUCTS, TOTAL#	**258,934**	**572,316**	**361,517**	**730,257**	**368,179**	**866,121**
Printing & Book Paper#	37,226	148,241	49,474	198,654	55,943	248,208
Writing & Related Paper	154,727	340,143	203,200	416,344	234,725	508,182
Packaging & Special Industrial Paper	16,773	36,407	40,243	53,154	22,952	55,886
Tissue Paper	50,208	47,534	68,600	62,105	54,559	53,845
PAPERBOARD PRODUCTS, TOTAL	**24,592**	**51,004**	**28,390**	**58,464**	**33,380**	**66,453**

* Includes Mixtures and Screenings R - Revised

** Included with Sulphate Pulp Imports

\# Coated and Impregnated Printing Papers included in Primary Coated Papers, in earlier years they were in Paper Products.

NOTE: Dollar figures for the value of shipments for which no tonnage figures were given are shown below. They are not included in the sub-totals, but are in the Total, All Grades: ($ 000)

$228,219 $212,338 $201,453

TABLE XIV

EXPORTS

1982 - 1987

WOOD PULP, PAPER, PAPERBOARD AND PRODUCTS

	1982		1983		1984	
	Tons	$ 000	Tons	$ 000	Tons	$ 000
TOTAL ALL GRADES	**9,872,299**	**4,324,128**	**10,889,442**	**4,229,844**	**11,301,136**	**4,534,007**
WOOD PULP ALL GRADES, TOTAL	**3,394,648**	**1,414,558**	**3,643,963**	**1,362,022**	**3,593,585**	**1,501,947**
Dissolving and Special Alpha	631,324	327,617	646,509	325,606	594,963	304,295
Sulphite, Paper Grades, Total	216,783	93,051	294,189	109,993	273,805	111,055
Bleached	209,078	91,115	281,422	106,258	263,416	107,797
Unbleached	7,705	1,936	12,767	3,736	10,389	3,258
Sulphate, Paper Grades, Total	2,519,413	985,496	2,663,639	913,537	2,670,794	1,064,663
Bleached	2,357,896	934,401	2,510,158	872,076	2,504,038	1,010,851
Semi-Bleached	62,399	21,470	57,630	18,230	75,937	25,697
Unbleached	99,118	29,625	95,851	23,231	90,819	28,116
Mechanical, Semi-Chemical & Other	27,128	8,394	39,626	12,884	54,023	21,934
COTTON PULP & OTHER FIBER	**104,560**	**72,327**	**102,863**	**69,805**	**84,883**	**63,545**
WASTE PAPER	**2,127,050**	**238,934**	**2,573,716**	**308,915**	**3,235,441**	**408,128**
PAPER, PAPERBOARD AND PRODUCTS, TOTAL	**4,246,041**	**2,589,319**	**4,568,900**	**2,481,137**	**4,387,227**	**2,551,544**
PAPER, PAPERBOARD AND OTHER, TOTAL	**3,670,413**	**1,754,352**	**3,984,537**	**1,718,035**	**3,819,212**	**1,789,505**
PAPER, TOTAL	**840,445**	**679,069**	**773,760**	**599,557**	**810,933**	**632,493**
Newsprint	**307,657**	**142,964**	**294,870**	**127,119**	**306,198**	**133,964**
Printing & Writing Paper, Total	**246,617**	**239,134**	**201,820**	**198,304**	**203,525**	**219,925**
Uncoated Groundwood	55,916	48,430	37,292	33,300	30,405	28,875
Coated Printing and Converting	81,373	65,485	79,185	60,033	85,715	71,368
Coated Groundwood	34,665	25,964	33,987	25,172	44,376	36,133
Coated Book	46,708	39,521	45,198	34,861	41,339	35,235
Uncoated Free Sheet	70,599	75,451	59,133	71,662	65,410	87,255
Thin (ex. cigarette)	27,688	34,699	17,643	20,010	14,036	20,705
Cotton Fiber	6,637	10,917	4,837	9,779	4,983	8,247
Bristols	4,404	4,152	3,730	3,520	2,976	3,475
Packaging & Industrial Paper, Total	**262,861**	**271,556**	**261,487**	**255,273**	**284,201**	**259,323**
Unbl.Kraft Pkg & Ind.Conv.,Total	89,062	38,003	116,190	43,233	106,712	44,382
Unbleached Kraft exc. Ship. Sack	49,377	22,534	47,133	18,037	40,434	19,155
Shipping Sack	39,685	15,469	69,057	25,196	66,278	25,227
Glassine, Greaseproof & Veg. Pa	5,447	7,246	17,202	7,682	5,444	8,845
Other Pkg. & Industrial Converting	55,886	36,247	16,272	22,056	26,148	22,693
Special Industrial, Total	112,466	190,060	111,523	182,302	145,897	183,403
Special Industrial	102,491	166,669	101,743	160,454	136,924	162,043
Absorbent	9,975	23,391	9,781	21,848	8,973	21,360
Tissue Paper	**23,310**	**25,415**	**15,883**	**18,861**	**17,009**	**19,281**
PAPERBOARD TOTAL	**2,771,046**	**1,044,908**	**3,143,405**	**1,086,488**	**2,930,607**	**1,113,040**
Kraft Linerboard (a)	1,886,193	542,304	2,254,544	575,862	2,058,034	630,691
Other Kraft Paperboard (Unbleached)	139,219	60,780	107,142	51,822	110,878	51,270
Corrugating Medium Semichemical	61,422	18,116	73,758	17,144	49,612	12,220
Bleached Packaging Paperboard, Total	525,734	349,614	558,326	371,436	543,217	346,432
Milk Carton	366,522	235,812	392,485	266,165	348,816	227,899
Folding Boxboard	81,339	56,735	87,896	57,361	106,450	68,074
Plate, Dish, Tray & Cup	42,115	29,647	35,970	23,608	42,180	25,718
Other	35,757	27,421	41,974	24,303	45,775	24,748
Recycled Furnish Paperboard, Total	158,478	74,094	149,635	70,224	168,866	72,427
Boxboard & Related Boards	76,728	31,877	57,818	27,908	5,387	3,334
Special Paperboard	32,418	26,295	42,323	29,408	123,368	59,001
Containerboard	49,332	15,922	49,494	12,908	40,111	10,092
WET MACHINE BOARD	**11,089**	**5,939**	**11,624**	**5,420**	**13,782**	**7,335**
CONSTRUCTION PAPER & BOARD, TOTAL	**47,833**	**24,437**	**55,748**	**26,570**	**63,890**	**36,637**
Building Paper	19,748	10,544	20,676	11,633	26,498	17,765
Insulating & Other Building Board	28,085	13,893	35,070	14,937	37,392	18,872
PAPER AND PAPERBOARD PRODUCTS, TOTAL	**575,628**	**834,960**	**584,363**	**763,102**	**568,015**	**762,039**
PAPER PRODUCTS, TOTAL	**315,805**	**591,163**	**311,912**	**535,687**	286,461	516,155
Cig. Paper Cut to Size, Books, etc.	17,717	46,349	16,280	44,419	15,830	42,808
PAPERBOARD PRODUCTS, TOTAL	**259,823**	**243,804**	**272,451**	**227,415**	**281,554**	**245,884**

NOTE: Grade structure revised in 1978.

NOTE: Dollar figures for the value of shipments for which no tonnage figures were given are shown below. They are not included in the sub-totals, but are in the Total, All Grades: ($ 000)

	$8,990	$7,965	$8,843

TABLE XIV (Cont.)

EXPORTS

1982 - 1987

WOOD PULP, PAPER, PAPERBOARD AND PRODUCTS

	1985		1986		1987	
	Tons	$ 000	Tons	$ 000	Tons	$ 000
TOTAL ALL GRADES	**11,259,715**	**4,047,813**	**13,051,329**	**4,692,884**	**14,797,719**	**6,015,948**
WOOD PULP ALL GRADES, TOTAL	**3,795,102**	**1,353,758**	**4,458,317**	**1,662,465**	**4,889,331**	**2,259,377**
Dissolving and Special Alpha	630,862	299,186	711,086	339,148	751,825	385,612
Sulphite, Paper Grades, Total	272,288	93,216	343,943	110,831	413,449	165,129
Bleached	250,047	87,873	317,493	104,110	375,020	157,947
Unbleached	22,241	5,343	26,450	6,721	38,429	7,182
Sulphate, Paper Grades, Total	2,862,953	951,684	3,344,619	1,197,590	3,697,621	1,698,130
Bleached	2,727,185	914,977	3,181,631	1,151,427	3,531,681	1,635,111
Semi-Bleached	40,543	13,150	18,781	6,388	7,747	2,811
Unbleached	95,207	23,557	144,207	39,775	158,193	60,208
Mechanical, Semi-Chemical & Other	29,019	9,672	58,669	14,896	26,436	10,506
COTTON PULP & OTHER FIBER	**107,224**	**71,802**	**157,452**	**72,500**	**182,001**	**91,365**
WASTE PAPER	**3,285,926**	**349,258**	**3,748,711**	**411,076**	**4,422,139**	**553,348**
PAPER, PAPERBOARD AND PRODUCTS, TOTAL	**4,071,463**	**2,266,377**	**4,686,849**	**2,539,545**	**5,304,248**	**3,103,821**
PAPER, PAPERBOARD AND OTHER, TOTAL	**3,580,553**	**1,586,234**	**4,160,284**	**1,853,748**	**4,579,052**	**2,280,422**
PAPER, TOTAL	**779,000**	**594,338**	**883,768**	**642,728**	**921,419**	**776,227**
Newsprint	**314,385**	**131,379**	**392,232**	**194,550**	**339,773**	**210,093**
Printing & Writing Paper, Total	**202,826**	**201,845**	**190,677**	**185,275**	**249,092**	**242,639**
Uncoated Groundwood	36,779	31,727	40,850	28,947	55,841	39,751
Coated Printing & Converting	82,461	64,624	78,253	57,858	100,839	72,145
Coated Groundwood	36,444	31,922	36,388	28,356	39,284	28,592
Coated Book	46,017	32,701	41,865	29,502	61,555	43,552
Uncoated Free Sheet	64,573	79,015	50,148	71,355	67,858	99,330
Thin (ex. cigarette)	13,338	17,603	14,533	19,167	18,409	23,331
Cotton Fiber	4,286	7,493	4,479	5,843	4,084	6,117
Bristols	1,389	1,383	2,414	2,105	2,061	1,966
Packaging & Industrial Paper, Total	**243,671**	**242,909**	**284,098**	**241,551**	**294,222**	**292,704**
Unbl.Kraft Pkg. & Ind. Conv., Total	67,695	29,931	78,250	32,011	89,194	40,758
Unbl. Kraft exc. Shipping Sack	29,062	15,595	20,883	11,343	23,543	15,670
Shipping Sack	38,663	14,336	57,367	20,668	65,651	25,088
Glassine, Greaseproof & Veg. Parch.	6,189	9,597	3,976	9,482	6,182	13,525
Other Pkg. & Industrial Converting	31,917	22,347	36,435	26,495	34,022	23,266
Special Industrial, Total	137,870	181,034	165,437	173,563	164,824	215,155
Special Industrial	129,565	162,808	157,274	157,126	153,086	191,982
Absorbent	8,305	18,226	8,163	16,437	11,738	23,173
Tissue Paper	**18,118**	**18,205**	**16,761**	**21,352**	**38,332**	**30,790**
PAPERBOARD TOTAL	**2,732,744**	**952,190**	**3,182,468**	**1,159,122**	**3,550,281**	**1,444,974**
Kraft Linerboard (a)	1,807,151	480,909	2,177,426	635,749	2,296,633	812,161
Other Kraft Paperboard (Unbleached)	100,651	41,053	157,615	57,547	210,566	78,596
Corrugating Medium Semichemical	61,853	15,293	76,643	21,712	63,951	22,938
Bleached Packaging Paperboard, Total	517,525	333,102	571,304	359,957	647,803	407,923
Milk Carton	378,814	244,935	417,029	264,142	452,176	290,326
Folding Boxboard	110,721	67,578	119,999	72,479	150,029	90,190
Plate, Dish, Tray & Cup	9,896	7,104	14,703	9,596	28,332	14,576
Other	18,088	13,506	19,573	13,740	17,266	12,832
Recycled Furnish Paperboard, Total	245,564	81,833	199,480	84,157	331,328	123,356
Boxboard & Related Boards (c)	56,213	30,232	10,218	5,008	6,841	4,095
Special Paperboard	124,136	35,015	134,826	64,206	238,467	97,440
Containerboard	65,215	16,586	54,436	14,943	86,020	21,820
WET MACHINE BOARD	**13,380**	**6,930**	**18,895**	**7,258**	**17,328**	**7,816**
CONSTRUCTION PAPER & BOARD, TOTAL	**55,429**	**32,776**	**75,153**	**44,640**	**90,024**	**51,405**
Building Paper	21,671	13,344	25,935	15,905	33,779	22,491
Insulating & Other Building Board	33,758	19,433	49,218	28,735	56,245	28,914
PAPER AND PAPERBOARD PRODUCTS, TOTAL	**490,910**	**680,143**	**526,565**	**685,797**	**725,196**	**823,399**
PAPER PRODUCTS, TOTAL	**237,191**	**464,174**	**240,221**	**456,434**	**301,202**	**540,681**
Cig. Paper Cut to Size, Books, etc.	14,939	39,710	15,416	37,718	17,295	43,497
PAPERBOARD PRODUCTS, TOTAL	**253,719**	**215,970**	**286,344**	**229,363**	**423,994**	**282,718**

(a) Contains Bleached Kraft Linerboard reported as follows:(Tons) 1981 - 151,979; 1982 - 67,595; 1983 - 160,253; 1984 - 141,368; 1985 - 130,358; 1986 - 133,787; 1987 - 102,266(c) Excludes Recycled Corrugating Medium.

NOTE: Dollar figures for the value of shipment for which no tonnage figures were given are shown below. They are not included in the sub-totals, but are in the Total, All Grades: ($ 000)

	$6,618	$7,298	$8,037

TABLE XV
VALUE OF SHIPMENTS OF PRODUCT CLASSES
1980 - 1986
(Millions of Dollars)

SIC CODE		1981	1982	1983	1984	1985	1986
26	PAPER AND ALLIED PRODUCTS (1)	$77,294.4	$77,067.2	$81,802.8	$92,543.9	$90,798.9	$94,833.2
2611-	**Pulp Mill Products**	3,971.0	3,644.2	3,624.3	4,183.9	3,629.5	4,188.8
26111	Special Alpha and Dissolving Woodpulp	715.1	593.8	589.9	617.6	561.6	587.6
26113	Sulfate Wood Pulp	(	2,510.8	2,479.7	3,125.3	2,626.6	3,139.8
26114	Sulfite and Other Wood Pulp	(3,249.8	183.0	209.6	200.4	228.4	211.8
26115	Pulp, Other Than Wood, and Pulpmill Byproducts, N.E.C.	(	353.0#	336.0	236.8	208.3	249.3
26110	Pulp Mill Products, N.S.K.	6.0	3.6	9.1	3.8	4.6	.3
2621-	**Papermill Products, except Building Paper**	19,936.3	20,056.9	21,361.0	24,354.3	23,631.0R	24,476.7
26211	Newsprint	2,063.0	2,161.6	2,220.1	2,369.8	2,385.4	2,409.5
26212	Uncoated Groundwood Paper	842.3	841.5	888.6	1,043.8	996.4	942.3
26213	Clay Coated Printing and Converting Papers	3,581.4	3,787.3	4,232.4	5,362.7	5,369.0	5,468.0
26214	Uncoated Free Sheet	5,765.7	5,530.6	5,999.2	6,899.1	6,648.1	7,329.8
26215	Bleached Bristols, Excluding Cotton Fiber Index and Bogus	602.8	605.2	667.6	708.7	673.9	697.4
26216	Cotton Fiber Paper and Thin Paper	736.2	599.3	619.1	762.4	684.9	722.5
26217	Unbleached Kraft Packaging and Industrial Converting Paper	1,444.4	1,199.8	1,219.0	1,349.1	1,101.7	1,125.9
26218	Packaging and Industrial Converting Paper, Except Unbleached Kraft	793.3	666.7	738.3	858.7	879.9	869.6
26219	Special Industrial Paper	639.5	942.8	960.0	1,058.2	1,007.3	997.0
2621A	Tissue Paper and Other Machine Creped Paper	(	3,685.4#	3,782.2	3,882.3	3,843.3R	3,884.3
26210	Tissue Mill Products, Except Building Paper, N.S.K.	(3,467.6	36.7	34.2	59.4	41.3	30.4
2631-	**Paperboard Mill Products**	10,064.9	9,390.0	9,932.8	11,666.2	10,574.4	11,116.6
26311	Unbleached Kraft Packaging and Industrial Converting Paperboard	4,575.9	4,076.1	4,101.0	5,218.1	4,655.3	5,110.6
26312	Bleached Packaging and Industrial Converting Paperboard	2,031.3	2,146.0	2,215.3	2,366.6	2,077.1	2,285.9
26313	Semichemical Paperboard	1,158.7	1,012.5	987.2	1,355.3	1,223.9	1,344.0
26314	Recycled Paperboard	2,173.0	2,062.1	2,537.3	2,607.0	2,512.6	2,474.5
26318	Wet Machine Board	76.8	62.8	64.8	81.6	78.3	66.5
26310	Paperboard Mill Products, N.S.K.	49.3	30.4	27.4	57.6	27.1	35.2
264-	**Miscellaneous Converted Paper Products**	24,273.3	25,043.7	26,562.3	29,924.0	30,367.1R	31,999.9
2641-	**Coated and Glazed Paper**	4,803.4	4,903.1	5,314.1	6,451.9	6,653.7	7,099.6
26411	Printing Paper Coated at Establishments Not Making Paper	269.3	241.6	322.0	319.7	394.3	373.3
26413	Gummed Products	237.7	211.9	228.9	290.1	203.1	191.9
26414	Pressure Sensitive Products	1,857.3	1,867.6	2,110.6	2,616.3	2,660.8	2,728.4
26415	Single Web Paper, Coated Rolls & Sheets, Incl. Waxed, for Pkg. Uses	(	433.9	446.6	517.1	549.8	607.4
26416	Single Web Film, Coated Roll & Sheets, Incl. Coextruded, for Pkg. Uses	(	168.2	194.0	317.2	344.5	413.9
26419	Paper/Paper Multiweb Laminations, for Packaging Uses	(1,607.6	182.3	155.0	187.4	181.2	197.0
2641A	Multiweb Laminated Rolls & Sheets, Exc. Paper/Paper & Foil for Pkg. Uses	(	544.8#	562.7	683.8	751.8	863.5
2641B	Other Coated and Processed Paper, Except for Packaging	689.7	900.3#	1,023.3	1,135.7	1,214.5	1,348.4
26410	Coated and Glazed Paper, N.S.K.	141.4	352.6#	271.2	384.6	353.9	375.7
26420	**Envelopes (Excluding Stationary Envelopes)**	1,610.3	1,751.6	1,874.9	2,107.6	2,086.1	2,229.7
2643-	**Bags, Except Textile Bags**	5,037.6	4,772.8	5,081.3	5,387.6	5,541.9	5,839.2
26434	Grocer's Bags and Sacks, Variety, Shopping, Uncoated	1,209.5	1,163.8#	1,181.9	1,183.4	1,084.7	1,006.5
26435	Specialty Bags and Liners, Single Web Paper, Coated	(	205.5#	279.8	255.3	264.7	235.0
26436	Specialty Bags and Liners, Single Web Film	(2,972.7	1,964.0#	2,271.7	2,346.6	2,627.2	2,992.4
26437	Specialty Bags and Liners, Multiweb Laminations and Foil	(	222.1#	244.4	235.0	241.5	370.5
26438	Shipping Sacks and Multiwall Bags, Except Textiles	805.8	846.5#	878.1	963.1	884.7	889.3
26430	Bags, Except Textile Bags, N.S.K.	(S)	370.9#	225.3	404.1	439.1	415.4
2645-	**Die-Cut Paper and Board**	1,514.8	1,605.1	1,797.6	1,880.0	1,651.0	1,690.0
26453	Die-Cut Paper and Board Office Supplies	(	597.9#	669.2	652.3	618.5	642.5
26454	Die-Cut Paper and Board Products (Other than Office)	(826.5	199.4#	254.7	264.0	265.5	298.4
26455	Pasted, Lined, Laminated, or Surface-Coated Paperboard	576.0	684.8#	745.3	828.3	592.3	567.6
26450	Die-Cut Paper and Board Products, N.S.K.	112.3	123.0#	128.3	135.4	174.6	181.5
2646-	**Pressed and Molded Pulp Goods**	246.2	242.3	217.4	236.3	260.3	269.7
26461	Bituminous Fiber Pipe	(D)	(D)	(D)	(D)	(D)	(D)
26462	Other Pressed and Molded Pulp Goods	239.9	(D)	(D)	(D)	(D)	(D)
26460	Pressed and Molded Pulp Goods, N.S.K.	(D)	(D)	(D)	(D)	(D)	(D)
2647-	**Sanitary Paper Products**	7,752.3	8,373.5	8,615.8	9,771.5	10,193.7R	10,732.0
26471	Sanitary Napkins and Tampons	919.2	915.1	944.3	1,162.5	1,167.0R	1,334.3
26473	Disposable Diapers	**	2,158.5#	2,175.0	2,593.9	2,608.9	2,992.9
26474	Sanitary Tissue Health Products	6,793.0	5,259.8#	5,457.4	5,920.7	6,338.2	6,377.6
26470	Sanitary Paper Products, N.S.K.	40.1	40.1#	39.1	94.4	79.6	97.1
2648-	**Stationery Products**	896.6	959.2	1,057.6	1,160.9	1,107.4	1,192.3
26481	Stationery	268.4	261.8	309.5	304.9	314.7	342.2
26482	Tablets and Related Products	569.4	603.1	653.9	736.0	686.9	760.1
26480	Stationery Products, N.S.K.	58.9	94.4#	94.3	120.0	105.8	90.1
2649-	**Converted Paper Products N.E.C.**	2,412.1	2,436.1	2,603.6	2,928.2	2,873.0	2,947.4
26493	Wallcoverings	410.2	396.9#	459.6	497.6	540.3	519.8
26494	Gift Wrap Paper	394.8	389.6	401.0	491.9	512.5	565.4
26496	Paper Business Machine Supplies, Office Supplies, N.E.C.	(	221.8	187.2	190.7	195.6	198.5
26497	Other Converted Paper and Board Products	(1,270.4	1,082.6#	1,210.2	1,261.7	1,271.8	1,250.5
26490	Converted Paper Products, N.E.C, N.S.K.	336.7	345.2#	345.7	486.3	412.9	413.2
265-	**Paperboard Containers and Boxes**	18,548.5	18,578.1	19,906.5	21,966.9	22,179.6	22,506.1
26510	**Bending Paperboard Packaging and Packaging Components**	3,415.0	3,743.9	3,979.5	4,326.5	4,452.1	4,575.4
26520	**Setup Paperboard Boxes**	485.0	485.1	552.3	492.6	480.8	522.4
26530	**Corrugated and Solid Fiber Boxes, Including Pallets**	10,495.9	10,303.1	11,045.1	12,718.7	12,714.8	13,037.7
2654-	**Sanitary Food Containers**	2,627.2	2,555.8	2,686.4	2,749.7	2,853.2	2,806.3
26541	Milk and Other Beverage Cartons	512.6	550.5	535.2	577.5	590.1	569.2
26542	Cups and Liquid-Tight Containers	828.1	885.2	961.4	964.6	1,075.9	1,060.2
26544	Folding Sanitary Food Containers for Liquid, Etc.	(	714.7	771.8	730.3	739.3	734.0
26545	Other Sanitary Food Containers, Boards, and Trays	(1,299.1	362.2#	375.6	406.8	393.8	395.8
26540	Sanitary Food Containers, (Paperboard) N.S.K.	*	43.1#	42.4	70.6	49.1	47.1
2655-	**Fiber Cans, Drums, and Similar Products**	1,525.4	1,490.3	1,643.2	1,679.4	1,678.7	1,564.3
26551	Paperboard Fiber Drums	286.5	289.8	317.2	312.7	333.1	314.8
26552	Fiber Cans, Tubes, and Similar Fiber Products	1,188.1	1,152.3	1,283.5	1,286.0	1,265.7	1,176.3
26550	Fiber Cans, Drums and Similar Products, N.S.K.	50.8	48.2#	42.5	80.7	79.9	73.2
2661-	**Building Paper and Board**	500.4	354.3	415.9	428.6	417.3	345.1
26611	Fiberboard	208.7	188.9	225.0	245.9	251.3	197.2
26612	Construction Paper	253.5	165.3	189.2	174.7	158.7	137.3
26610	Building Paper and Board, N.S.K.	38.2	(Z)	1.7	(S)	7.2	10.6

SOURCE: Survey of Manufactures - Bureau of Census

R -Revised
N.S.K. - Not Specified by Kind
N.E.C. - Not Elsewhere Classified
(Z) Less than half the unit shown

(1) Sum of reported data
(A) Not reported separately
(D) Data withheld to avoid disclosure
(S) Not up to statistical standard

* - Withheld - NSK calculation was a negative number
** - Included in Sanitary Tissue Health Products
# - Data for 1982 and later years based on revised SIC Codes published in the 1982 Census of Manufactures

SECTION II

REGIONAL DATA

Table XVI presents regional data on pulpwood consumption, wood pulp production and paper and paperboard shipments, by major grade groupings, for 1986. This is the latest year for which such data are available, on a state, divisional and regional basis. The totals are not in full agreement with those shown on Tables I - IX, but the geographic distribution appears to be representative.

Table XVII shows data on capacity for paper, paperboard and wood pulp, by major grades, for each of the nine Census Divisions for the years 1970 and 1982-1990, as published in API's October 1987 Capacity Survey. The table below presents the 1986 and 1990 percentage distribution of these data for paper, paperboard and wood pulp by Census Division and Region.

This table highlights the concentration of wood pulp and paperboard capacity in the South; the importance of paper capacity in the North East and North Central Regions; and the growth in capacity of paper and paperboard projected for the Southern states during the next three years. The percentage distributions for paper, paperboard and wood pulp in 1990 are slightly distorted by capacity for which the location was not known.

	Total Paper and Paperboard		Total Paper		Total Paperboard		Total	Other	Total Wood Pulp	
	1986	1990	1986	1990	1986	1990	1986	1990	1986	1990
	Percentage Distribution									
UNITED STATES	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**
NORTH EAST	**15.1**	**14.4**	**23.8**	**22.3**	**5.9**	**5.9**	**21.6**	**21.6**	**8.0**	**7.5**
NEW ENGLAND	7.7	7.4	13.5	12.8	2.3	2.2	2.4	2.4	5.7	5.4
MIDDLE ATLANTIC	7.4	7.0	10.3	9.6	3.7	3.7	19.3	19.2	2.3	2.2
NORTH CENTRAL	**18.1**	**17.8**	**22.3**	**22.2**	**13.8**	**13.1**	**19.4**	**19.7**	**7.6**	**7.9**
EAST NORTH CENTRAL	15.9	15.3	19.8	18.7	12.8	11.9	11.5	11.7	6.5	6.4
WEST NORTH CENTRAL	2.2	2.5	2.8	3.5	1.3	1.2	7.9	8.0	1.1	1.5
SOUTH	**52.1**	**52.7**	**39.6**	**40.9**	**64.6**	**65.2**	**54.1**	**54.7**	**67.6**	**67.0**
SOUTH ATLANTIC	24.3	24.6	16.1	16.4	32.5	33.1	22.6	22.7	31.7	31.5
EAST SOUTH CENTRAL	13.3	13.2	10.9	11.2	15.3	15.3	19.2	19.5	18.7	18.0
WEST SOUTH CENTRAL	14.6	15.0	12.6	13.4	16.7	16.8	12.2	12.4	17.2	17.5
WEST	**14.7**	**14.1**	**14.3**	**13.6**	**15.7**	**15.1**	**4.9**	**4.1**	**16.8**	**16.7**
LOCATION NOT KNOWN	**0.0**	**0.0**	**0.0**	**0.9**	**0.0**	**0.7**	**0.0**	**0.0**	**0.0**	**0.9**

Table XVIII presents data on the paper and allied products industry published in the 1986 Survey of Manufactures on a state-by-state basis.

TABLE XVI

STATE DATA - 1985R

(Short Tons)

Geographic Areas	PULPWOOD CONSUMPTION (Cords)*	WOOD PULP PRODUCTION	PAPER AND PAPERBOARD SHIPMENTS				
			Total All Grades1/	Paper	Paperboard	Wet Machine Board#	Construction Paper Plus Insulating Board
UNITED STATES, TOTAL	**84,840,482**	**57,693,457**	**67,604,0082/**	**33,179,392**	**33,291,440**	**97,774**	**1,133,176**
Northeast	**7,649,786**	**4,860,639**	**9,697,098**	**7,787,326**	**1,909,772**	**N.A.**	
New England	**N.A.**	**N.A.**	**N.A.**	**N.A.**	**N.A.**	**N.A.**	
Maine	4,115,286	2,532,369	(D)	3,334,502	(D)	-	
New Hampshire	-	-	(D)	(D)	(D)	(D)	
Vermont	-	(D)	(D)	134,688	(D)	-	
Massachusetts	-	-	689,538	373,847	315,691	-	
Rhode Island	-	-	-	-	-	-	
Connecticut	-	-	-	-	-	-	
Middle Atlantic	**N.A.**	**N.A.**	**4,626,155**	**3,512,425**	**1,113,730**	**N.A.**	
New York	841,488	547,808	1,703,927	1,493,697	210,230	(D)	
New Jersey	-	(D)	669,077	369,487	299,590	(D)	
Pennsylvania	1,299,527H	1,376,135	2,252,440	1,649,241	603,910	(D)	
North Central	**6,209,423**	**4,402,324**	**12,437,468**	**7,787,545**	**4,649,923**	**N.A.**	
East North Central	**N.A.**	**N.A.**	**N.A.**	**N.A.**	**N.A.**	**N.A.**	
Ohio	612,603	500,986	2,449,438	1,038,215	1,411,223	-	
Indiana	-	-	-	-	-	-	
Illinois	-	-	559,294	162,408	396,886	(D)	
Michigan	1,636,640H	1,307,576	2,680,313	1,481,469	1,198,844	-	
Wisconsin	2,503,765	1,693,303	4,661,199	4,076,863	584,336	-	
West North Central	**N.A.**	**N.A.**	**N.A.**	**N.A.**	**N.A.**	-	
Minnesota	1,012,190	740,135	(D)	1,007,762	(D)	-	
Iowa	-	-	-	-	-	-	
Missouri	-	-	-	-	-	-	
Kansas	-	-	-	-	-	-	
							(N.A.)
South	**55,630,742**	**39,210,864**	**34,345,398**	**12,729,057**	**21,616,341**	**N.A.**	
South Atlantic	**N.A.**	**N.A.**	**N.A.**	**N.A.**	**N.A.**	**N.A.**	
Delaware	-	-	-	-	-	-	
Maryland	-	-	-	-	-	-	
Virginia	3,794,918	2,816,708	2,795,392	954,185	1,841,207	(D)	
West Virginia	-	-	-	-	-	-	
North Carolina	3,966,661	3,044,808	2,061,547	990,473	1,071,074	-	
South Carolina	3,888,708	2,585,227	(D)	(D)	1,731,196	-	
Georgia	9,040,496	6,436,128	5,588,983	1,303,639	4,285,344	-	
Florida	5,377,897	3,438,387	2,665,290	805,732	1,859,558	-	
East South Central	**N.A.**	**N.A.**	**N.A.**	**N.A.**	**N.A.**	**N.A.**	
Kentucky	-	-	(D)	(D)	(D)	-	
Tennessee	481,664H	1,724,098	2,191,328	1,065,725	1,125,603	(D)	
Alabama	8,835,544	5,880,030	5,188,530	2,202,190	2,986,340	-	
Mississippi	3,043,076	2,556,565	(D)	328,466	(D)	-	
West South Central	**N.A.**	**N.A.**	**N.A.**	**N.A.**	**N.A.**	-	
Arkansas	3,143,346	1,966,882	1,987,248	1,007,591	979,657	-	
Louisiana	6,000,283	4,342,438	4,226,014	1,522,058	2,673,956	-	
Oklahoma	-	-	-	-	-	-	
Texas	4,240,935	2,863,644	(D)	(D)	706,491	-	
West	**15,350,531**	**9,219,630**	**9,990,868**	**4,875,464**	**5,115,404**	-	
Mountain	**N.A.**	**N.A.**	**N.A.**	**N.A.**	**N.A.**	-	
Montana	-	-	-	-	-	-	
Idaho	-	-	-	-	-		
Colorado	-	-	-	-	-	-	
New Mexico	-	-	-	-	-	-	
Arizona	-	-	-	-	-	-	
Utah	-	-	-	-	-	-	
Pacific	**N.A.**	**N.A.**	**N.A.**	**N.A.**	**N.A.**	-	
Washington	6,936,584	4,100,508	3,526,592	2,497,955	1,028,637	-	
Oregon	4,357,005	2,925,297	3,325,576	1,571,179	1,754,397	-	
California	-	749,663	1,770,905	502,732	1,268,173	-	
Alaska	(D)	-	-	-	-	-	

SOURCE: Bureau of the Census - Current Industrial Report, Pulp, Paper and Board 1986 Series M226A (86)-1 U.S. Department of Commerce, Washington, D.C.

* - 128 Cu. Ft. roughwood basis
\# - Included in paperboard totals
\- - Represents zero
S - Softwood pulpwood only; hardwood pulpwood data withheld.
H - Hardwood pulpwood only; softwood pulpwood data withheld.
(D) - Withheld by Commerce Department to avoid disclosure.
1/ - Excludes 2,095,022 hard pressed board not shown separately. Subtotals show only paper plus paperboard.
N.A. - Not available
2/ - Includes construction paper and insulating board totals not included in regional totals.

TABLE XVI (Cont.)

STATE DATA - 1986

(Short Tons)

Geographic Areas	PULPWOOD CONSUMPTION (Cords)*	WOOD PULP PRODUCTION	PAPER AND PAPERBOARD SHIPMENTS				Construction Paper Plus Insulating Board
			Total All Grades1/	Paper	Paperboard	Wet Machine Board#	
UNITED STATES, TOTAL	90,553,554	60,935,497	71,738,091	34,701,747	36,001,942	101,318	1,034,402
Northeast	7,700.254	4,949,582	9,976,047	7,970,412	2,005,635	N.A.	
New England	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
Maine	4,039,795	2,502,503	(D)	3,383,040	(D)	-	
New Hampshire	-	-	(D)	(D)	(D)	(D)	
Vermont	-	(D)	(D)	137,683	(D)	-	
Massachusetts	-	-	706,642	399,791	306,851	-	
Rhode Island	-	-	-	-	-	-	
Connecticut	-	-	-	-	-	-	
Middle Atlantic	N.A.	N.A.	4,817,635	3,625,302	1,192,333	N.A.	
New York	829,279	552,931	1,716,300	1,475,357	240,943	(D)	
New Jersey	-	(D)	623,300	382,357	291,989	(D)	
Pennsylvania	(D)	1,434,376	2,426,989	1,767,588	659,401	(D)	
North Central	7,220,154	4,792,313	13,053,700	8,200,406	4,853,294	N.A	
East North Central	N.A.	N.A.	N.A.	N.A.	N.A.	N.A	
Ohio	(D)	799,689	2,575,450	1,190,485	1,384,965	-	
Indiana	-	-	-	-	-		
Illinois	-	-	577,857	165,866	411,991	(D)	
Michigan	(D)	1,226,061	2,833,657	1,533,694	1,299,963	(D)	
Wisconsin	2,644,969	1,790,098	4,891,975	4,235,243	656,732	-	
West North Central	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
Minnesota	1,493,651	766,449	(D)	1,054,850	(D)	-	
Iowa	-	-	-	-	-	-	
Missouri	-	-	-	-	-	-	
Kansas	-	-	-	-	-	-	
South	59,099,586	41,448,183	37,228,839	13,375,322	23,853,517	N.A.	(N.A.)
South Atlantic	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
Delaware	-	-	-	-	-	-	
Maryland	-	-	-	-	-	-	
Virginia	3,840,892	2,924,775	3,026,761	987,733	2,039,028	(D)	
West Virginia	-	-	-	-	-	-	
North Carolina	4,215,269	3,255,831	2,107,224	989,940	1,117,284	-	
South Carolina	4,227,031	2,743,685	(D)	(D)	1,937,107	-	
Georgia	9,586,892	6,812,561	6,221,934	1,453,251	4,768,683	-	
Florida	5,517,399	3,611,316	2,773,349	737,325	2,036,024	-	
East South Central	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
Kentucky	-	-	(D)	- (D)	(D)	-	
Tennessee	(D)	1,744,106	1,330,624	1,077,669	1,222,855	(D)	
Alabama	9,042,052	6,069,433	5,293,339	2,240,847	3,052,492	-	
Mississippi	3,849,129	2,668,090	(D)	312,018	(D)	-	
West South Central	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
Arkansas	3,406,456	2,205,504	2,119,652	1,029,077	1,090,575	-	
Louisiana	6.644,317	4,826,218	4,660,347	1,717,560	2,942,787	-	
Oklahoma	-	-	-	-	-	-	
Texas	4,426,825	2,981,879	(D)	(D)	1,137,518	-	
West	16,533,560	9,745,419	10,445,103	5,155,607	5,289,496	N.A.	
Mountain	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
Montana	-	-	-	-	-	-	
Idaho	-	-	-	-	-	-	
Colorado	-	-	-	-	-	-	
New Mexico	-	-	-	-	-	-	
Arizona	-	-	-	-	-	-	
Utah	-	-	-	-	-	-	
Pacific	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
Washington	7,381,979	4,284,960	3,750,467	2,632,241	1,118,226	-	
Oregon	4,407,631	2,948,353	3,472,654	1,611,345	1,861,309	-	
California	-	853,856	1,672,265	532,039	1,140,226	-	
Alaska	(D)	-	-	-	-	-	

SOURCE: Bureau of the Census - Current Industrial Reports, Pulp, Paper and Board 1986, Series MA26A (86)-1 U.S. Department of Commerce, Washington, DC

* - 128 Cu. Ft. roughwood basis # - Included in Paperboard totals

\- - Represents zero

S - Softwood pulpwood only; hardwood pulpwood data withheld. H - Hardwood pulpwood only; softwood pulpwood data withheld.

(D) - Withheld by Commerce Department to avoid disclosure 1/ - Excludes 1,932,943 tons of hard pressed board not shown separately. Subtotals show only paper plus paperboard.

(R) - Revised N.A. - Not Available

2/ - Includes construction paper and insulating board totals not incuded in regional totals.

TABLE XVII

CAPACITY OF PAPER, PAPERBOARD AND WOOD PULP BY CENSUS DIVISION

1970, 1982 - 1986, 1990

ANNUAL CAPACITY - 000 SHORT TONS

	Total Paper & Paper-board	PAPER					PAPERBOARD			
		Total	Newsprint	Printing Writing & Related	Packaging & Ind. Converting	Tissue	Total	Unbleached Kraft Total	Unbleached Kraft Liner-board	Solid Bleached
New England										
1970*	4,748	3,660	417	2,419	367	457	895	-	-	34
1982	5,787	4,901	N.A.	3,600	457	547	811	-	-	N.A.
1983	5,881	4,997	N.A.	3,736	436	533	818	-	-	N.A.
1984	6,103	5,198	N.A.	3,883	466	532	841	-	-	N.A.
1985	6,133	5,295	N.A.	3,920	498	531	838	-	-	N.A.
1986	5,974	5,122	N.A.	3,791	491	524	852	-	-	N.A.
1990	6,341	5,450	N.A.	4,081	510	527	891	-	-	N.A.
Middle Atlantic										
1970*	6,354	3,411	149	1,926	300	1,036	2,087	-	-	-
1982	6,037	3,803	N.A.	2,313	222	1,060	1,702	-	-	-
1983	5,929	3,842	N.A.	2,351	236	1,048	1,531	-	-	-
1984	5,909	3,878	N.A.	2,401	236	1,033	1,430	-	-	-
1985	5,307	3,893	N.A.	2,350	306	1,022	1,414	-	-	-
1986	5,315	3,925	N.A.	2,379	318	1,019	1,390	-	-	-
1990	5,601	4,084	N.A.	2,461	313	1,086	1,517	-	-	-
East North Central										
1970*	10,057	5,070	113	3,197	628	1,132	4,021	-	-	124
1982	11,330	6,597	N.A.	4,417	773	1,268	4,410	-	-	N.A.
1983	11,644	6,902	N.A.	4,622	801	1,339	4,453	-	-	N.A.
1984	12,101	7,240	N.A.	4,891	840	1,366	4,553	-	-	N.A.
1985	11,937	7,302	N.A.	4,913	856	1,380	4,635	-	-	N.A.
1986	12,138	7,424	N.A.	5,017	845	1,401	4,714	-	-	N.A.
1990	12,923	7,983	N.A	5,486	866	1,454	4,940	-	-	N.A.
West North Central										
1970*	1,587	594	-	571	23	-	438	-	-	-
1982	1,810	875	-	860	N.A.	-	459	-	-	-
1983	1,835	954	-	940	N.A.	-	467	-	-	-
1984	1,918	1,032	-	1,015	N.A.	-	483	-	-	-
1985	1,536	1,049	-	1,032	N.A.	-	488	-	-	-
1986	1,546	1,053	-	1,038	N.A.	-	493	-	-	-
1990	1,999	1,500	-	1,484	N.A.	-	499	-	-	-
South Atlantic										
1970*	13,623	3,520	339	1,275	1,723	182	9,514	6,194	5,770	1,382
1982	17,576	5,245	780	2,083	1,964	419	11,686	7,771	7,352	1,684
1983	17,717	5,441	818	2,119	2,019	406	11,674	7,713	7,281	1,696
1984	18,113	5,844	979	2,456	1,971	438	11,749	7,793	7,362	1,711
1985	17,909	6,043	999	2,601	1,977	467	11,866	7,841	7,385	1,734
1986	18,416	6,128	1,049	2,706	1,880	494	12,288	8,034	7,551	1,914
1990	20,703	6,989	1,275	3,308	1,664	742	13,714	8,904	8,438	2,160
East South Central										
1970*	7,137	2,792	833	747	739	473	3,439	2,232	2,168	626
1982	9,183	3,731	1,118	1,567	508	538	5,105	3,324	2,934	735
1983	9,635	3,938	1,130	1,764	486	558	5,326	3,371	2,968	729
1984	10,162	4,217	1,154	1,989	495	579	5,542	3,465	3,048	750
1985	9,799	4,117	1,089	2,165	307	556	5,682	3,543	3,127	777
1986	9,931	4,145	1,060	2,311	172	602	5,786	3,713	3,283	761
1990	11,099	4,762	1,338	2,604	180	639	6,336	4,172	3,691	803
West South Central										
1970*	7,106	3,188	721	1,130	1,247	88	3,172	1,704	1,442	871
1982	10,946	4,525	1,343	1,540	1,213	429	6,025	3,521	3,005	1,240
1983	10,719	4,549	1,335	1,540	1,231	442	5,789	3,568	3,154	1,239
1984	10,738	4,491	1,188	1,592	1,259	452	5,871	3,566	3,190	1,249
1985	10,759	4,548	1,142	1,669	1,241	496	6,211	3,719	3,231	1,352
1986	11,101	4,796	1,157	1,878	1,210	551	6,305	3,752	3,258	1,371
19[illegible]	12,677	5,715	1,220	2,672	1,270	553	6,962	4,325	3,717	1,362
Mountain and Pacific										
1970*	8,340	3,571	888	954	913	817	4,053	2,177	2,136	435
1982	10,449	4,988	1,770	1,429	924	865	5,223	2,785	2,741	431
1983	10,637	5,053	1,853	1,480	855	865	5,391	2,859	2,814	434
1984	10,898	5,204	1,861	1,662	805	876	5,523	3,011	2,965	444
1985	10,920	5,333	1,848	1,808	783	894	5,587	3,042	2,996	478
1986	11,355	5,420	1,852	1,860	826	882	5,935	3,124	3,083	507
1990	12,064	5,810	2,069	1,902	884	955	6,254	3,383	3,350	523

SOURCE: American Paper Institute, Paper, Paperboard and Wood Pulp Capacity Survey, various issues through October 1987.

* Total capacity at end of year.

N.A. Not Available - = Zero

TABLE XVII (Cont.)

CAPACITY OF PAPER, PAPERBOARD AND WOOD PULP BY CENSUS DIVISION

1970, 1982 - 1986, 1990

ANNUAL CAPACITY - 000 SHORT TONS

	PAPERBOARD (Cont.)		Con-struction Paper & Board	WOOD PULP						
						Sulphate				
	Semi-Chemical	Recycled		Total **	Dis-solving	Sulphite	Bl. & Semi-Bl.	Un-bleached (1)	Semi-chemical	Mechan-ical	For Con-struction (2)
New England											
1970*	179	682	192	2,797	-	484	1,061	48	140	953	100
1982	N.A.	680	73	3,317	-	N.A.	1,848	N.A.	N.A.	1,023	79
1983	N.A.	688	66	3.298	-	N.A.	1,890	N.A.	N.A.	971	80
1984	N.A.	711	64	3,425	-	N.A.	1,972	N.A.	N.A.	1,005	79
1985	N.A.	709	58	3,472	-	N.A.	1,982	N.A.	N.A.	1,028	79
1986	N.A.	728	51	3,369	-	N.A.	1,982	N.A.	N.A.	1,044	79
1990	N.A.	771	51	3,436	-	N.A.	2,052	N.A.	N.A.	1,047	79
Middle Atlantic											
1970*	-	2,087	856	1,357	-	143	312	-	325	247	244
1982	-	1,702	532	1,474	-	N.A.	504	-	405	190	120
1983	-	1,531	557	1,473	-	N.A.	490	-	418	189	120
1984	-	1,430	600	1,457	-	N.A.	497	-	431	189	95
1985	-	1,414	475	1,394	-	N.A.	505	-	444	186	18
1986	-	1,390	413	1,383	-	N.A.	504	-	450	187	18
1990	-	1,517	408	1,390	-	N.A.	504	-	453	189	18
East North Central											
1970*	1,128	2,769	966	3,209	-	567	601	165	987	462	427
1982	1,579	2,829	323	3,422	-	516	842	N.A.	1,322	387	130
1983	1,607	2,844	309	3,465	-	485	893	N.A.	1,338	398	122
1984	1,632	2,920	308	3,531	-	475	939	N.A.	1,350	409	128
1985	1,677	2,956	269	3,537	-	462	1,007	N.A.	1,306	406	126
1986	1,768	2,943	247	3,802	-	469	1,327	N.A.	1,356	424	122
1990	1,949	2,988	249	4,085	-	346	1,591	N.A.	1,417	498	107
West North Central											
1970*	176	262	555	959	-	44	206	24	265	266	153
1982	N.A.	395	476	875	-	-	-----277-------		N.A.	236	318
1983	N.A.	403	413	850	-	-	-----293-------		N.A.	245	268
1984	N.A.	416	403	899	-	-	N.A.	N.A.	N.A.	258	278
1985	N.A.	417	188	701	-	-	N.A.	N.A.	N.A.	269	72
1986	N.A.	421	169	641	-	-	N.A.	N.A.	N.A.	273	49
1990	N.A.	425	170	914	-	-	N.A.	N.A.	N.A.	537	50
South Atlantic											
1970*	1,103	834	589	14,598	600	2	4,222	8,163	913	385	313
1982	1,141	1,090	645	18,171	641	-	6,287	9,302	896	601	445
1983	1,130	1,136	601	18,164	620	N.A.	6,432	9,208	847	625	432
1984	1,056	1,189	521	18,592	580	-	6,893	9,207	835	821	256
1985	1,087	1,204	512	18,982	568	-	7,417	9,126	803	810	258
1986	1,123	1,218	485	18,977	529	-	7,724	9,077	802	845	250
1990	1,237	1,413	484	20,347	513	-	8,620	9,353	867	995	254
East South Central											
1970*	333	248	906	7,586	285	-	2,481	2,820	429	844	634
1982	682	364	347	9,750	N.A.	-	4,188	3,644	575	889	190
1983	854	372	371	10,212	N.A.	-	4,439	3,674	722	911	211
1984	941	385	402	10,597	N.A.	-	4,712	3,714	787	913	233
1985	959	402	407	11,126	N.A.	-	5,338	3,653	796	887	235
1986	898	414	412	11,120	N.A.	-	5,583	3,672	692	954	238
1990	951	411	415	11,518	N.A.	-	5,729	3,785	659	1,128	239
West South Central											
1970*	352	245	747	7,069	-	-	2,969	2,829	259	694	319
1982	909	357	396	10,907	-	-	4,044	4,724	823	1,165	151
1983	615	367	381	10,359	-	-	4,048	4,553	458	1,169	130
1984	686	370	376	10,491	-	-	4,093	4,593	531	1,159	115
1985	760	380	266	10,337	-	-	4,128	4,480	618	999	111
1986	789	394	262	10,334	-	-	4,184	4,577	629	944	108
1990	850	425	265	11,308	-	-	4,514	5,064	669	1,061	92
Mountain and Pacific											
1970*	485	957	716	8,896	883	1,163	2,147	2,950	366	787	597
1982	733	1,274	238	9,722	702	761	2,780	3,525	586	1,289	80
1983	748	1,352	192	9,768	649	793	2,816	3,531	590	1,307	81
1984	768	1,300	171	10,009	669	775	2,944	3,610	567	1,369	75
1985	755	1,313	146	10,064	670	778	2,942	3,662	558	1,378	74
1986	803	1,500	105	10,126	651	791	2,955	3,764	577	1,388	71
1990	769	1,578	87	10,832	665	792	3,125	4,127	553	1,569	61

(1) Includes screenings. (2) Excludes defibrated/exploded pulp capacity of mills that produce hard pressed board, 1980-1990.

* Total capacity at end of year.

** Includes soda pulp for 1970 as follows (000 Tons): New England - 10, Middle Atlantic - 86, East South Central - 93, Mountain and Pacific - 4. Other years included in sulphate pulp. N.A. Not Available - = Zero

TABLE XVIII

PAPER AND ALLIED PRODUCTS - 1986 DATA

	Number of All Employees (000)	Total Payroll ($000,000)	Number of Production Workers (000)	Wages of Production Workers	Value Added by Manufacture	Value of Shipments	Capital Expenditures
				----------Million Dollars----------			
NORTHEAST	**163.7**	**4,048.3**	**122.3**	**2,626.0**	**10,192.6**	**22,231.3**	**1,172.6**
New England	**59.7**	**1,548.2**	**44.7**	**956.1**	**3,799.7**	**8,294.6**	**531.7**
Maine	16.8	543.2	13.3	404.4	1,374.5	3,057.0	334.8
New Hampshire	6.4	163.6	4.5	96.5	368.5	878.4	40.8
Vermont	2.3	53.5	1.8	40.4	182.2	360.7	10.4
Massachusetts	24.7	564.7	17.6	357.6	1,202.4	2,699.1	95.8
Rhode Island	2.0	35.8	1.6	23.8	71.8	153.2	2.2
Connecticut	7.5	187.4	5.9	33.4	600.3	1,146.2	47.7
Middle Atlantic	**104.0**	**2,500.1**	**77.6**	**1,669.9**	**6,392.9**	**13,936.7**	**640.9**
New York	38.0	879.1	28.8	600.3	1,995.2	4,386.9	173.3
New Jersey	26.5	628.8	19.1	384.6	1,506.8	3,171.7	136.7
Pennsylvania	39.5	992.2	29.7	685.0	2,890.9	6,378.1	330.9
NORTH CENTRAL#	**173.5**	**4,608.7**	**131.6**	**3,201.2**	**12,393.2**	**27,132.6**	**1357.9**
East North Central	**138.1**	**3,726.8**	**104.2**	**2,578.6**	**9,507.7**	**21,391.4**	**979.5**
Ohio	30.1	801.2	22.7	568.4	1,668.7	3,981.2	149.9
Indiana	13.0	297.2	9.6	192.7	723.4	1,717.5	63.7
Illinois	33.7	784.8	26.0	520.2	1,985.3	4,258.9	131.8
Michigan	19.2	575.5	14.0	399.6	1,536.4	3,330.1	140.3
Wisconsin	42.1	1,268.1	31.9	897.7	3,593.9	8,103.7	493.8
West North Central#	**35.4**	**881.9**	**27.4**	**622.6**	**2,885.5**	**5,741.2**	**378.4**
Minnesota	13.5	375.2	10.6	270.6	1,283.7	2,366.1	244.9
Iowa	4.4	111.7	3.4	76.3	336.0	736.9	28.9
Missouri	11.6	272.6	9.0	197.6	868.7	1,796.8	85.6
North Dakota	-	-	-	-	-	-	-
South Dakota	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Nebraska	1.2	27.7	0.9	18.0	53.9	134.5	3.8
Kansas	4.7	94.7	3.5	60.1	343.2	706.9	15.2
SOUTH#	**197.6**	**5,496.0**	**152.0**	**3,844.7**	**15,782.5**	**35,369.4**	**2,874.3**
South Atlantic	**102.3**	**2,799.4**	**77.8**	**1,884.3**	**7,945.3**	**17,707.1**	**1,731.0**
Delaware	3.1	69.3	2.0	42.1	189.6	543.7	4.1
Maryland	10.5	233.7	7.2	45.8	546.4	1,066.6	105.0
Virginia	14.1	383.4	10.6	268.9	1,091.9	2,320.6	243.5
West Virginia	1.2	22.2	0.8	14.2	46.4	98.7	2.4
North Carolina	19.7	528.9	15.6	388.8	1,308.7	2,970.0	183.5
South Carolina	13.3	410.5	10.6	299.9	1,482.4	2,820.4	543.4
Georgia	27.4	777.7	20.8	548.1	2,359.6	5,506.7	414.1
Florida	13.0	373.7	10.2	276.5	920.3	2,380.4	235.0
East South Central	**48.3**	**1,393.1**	**37.4**	**1,015.8**	**4,371.2**	**9,087.5**	**613.3**
Kentucky	5.8	145.7	4.5	102.7	476.8	1,056.3	55.2
Tennessee	17.0	426.8	13.1	302.7	1,298.6	2,783.6	125.7
Alabama	17.8	601.6	13.7	450.7	1,972.5	3,820.1	371.6
Mississippi	7.7	219.0	6.1	159.7	623.3	1,427.5	60.8
West South Central	**47.0**	**1,303.5**	**36.8**	**944.6**	**3,466.0**	**8,574.8**	**530.0**
Arkansas	11.2	333.6	9.1	252.2	695.9	1,985.8	85.6
Louisiana	10.2	336.4	8.0	250.9	952.9	2,417.6	271.5
Oklahoma	3.5	98.7	2.9	77.5	333.2	778.5	(D)
Texas	22.1	534.8	16.8	364.0	1,484.0	3,392.9	172.9
WEST#	**65.0**	**1,892.3**	**50.4**	**1,375.5**	**5,432.3**	**12,711.2**	**555.8**
Mountain#	**6.6**	**179.6**	**5.4**	**130.1**	**456.4**	**1,115.4**	**22.6**
Montana	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Idaho	2.3	65.5	1.9	51.2	167.9	384.2	(D)
Wyoming	-	-	-	-	-	-	-
Colorado	1.7	54.7	1.3	34.6	113.7	304.7	18.9
New Mexico	-	-	-	-	-	-	-
Arizona	1.4	36.4	1.2	27.4	104.9	262.8	(D)
Utah	1.2	23.0	1.0	16.9	69.9	163.7	3.7
Nevada	-	-	-	-	-	-	-
Pacific#	**58.4**	**1,712.7**	**45.0**	**1,245.4**	**4,975.9**	**11,595.8**	**533.2**
Washington	15.3	518.1	11.9	396.3	1,412.0	3,424.9	145.2
Oregon	8.0	271.0	6.2	202.9	985.9	2,115.1	58.8
California	34.8	917.1	26.7	642.1	2,558.6	6,013.1	328.0
Hawaii	0.3	6.5	0.2	4.1	19.4	42.7	1.2
Alaska	(D)	(D)	(D)	(D)	(D)	(D)	(D)
TOTAL REPORTED	**599.8**	**16,045.3**	**456.3**	**11,047.4**	**43,800.6**	**97,444.5**	**5,960.6**
TOTAL U.S.A.	**602.6**	**16,112.8**	**458.4**	**11,296.9**	**43,924.5**	**97,853.2**	**6,084.4**

SOURCE: Annual Survey of Manufacturers, U.S. Department of Commerce - Statistics for Divisions and States - 1986.
(D) - Data withheld to avoid disclosure of individual company data. # - Total Reported.
NOTE: Each state has at least one establishment in the Paper and Allied Products Industry. - No Data Reported.

SECTION III

INPUTS AND RELATED DATA

This section presents data on the inputs of labor, pulpwood, wood pulp, waste paper and energy required to manufacture paper and paperboard. It also presents data on wood pulp consumption at paper and board mills, wood pulp production, labor productivity, total expenditures on new plant and equipment, including expenditures for environmental protection and expenditures for research and development.

Table XIX shows data on fuel and energy use by the paper industry for 1972 -- the first year for which such data were collected -- and for the years 1983-1987.

The table highlights the dramatic shift in energy sources and productivity of the past 15 years. Use of self-generated fuels for example, increased from 40.3% of the industry's total energy needs in 1972 to 56.7% in 1987. The major shift was from oil to hogged fuel and bark, with spent liquor also making an important contribution. Most of these changes were accomplished by 1986. The major changes in 1987 were shifts from oil, coal and purchased electricity to natural gas.

Tables XX and XXI present data on the total collection and use of waste paper in the United States. Total collection rose to a new high of 23.8 million tons in 1987, accounting for 28.5% of the new supply of paper and board. The paper industry used 19.0 million tons as fibrous material inputs, equivalent to 25.0% of its total production. Waste paper exports reached a record-high 4.4 million tons in 1987, just about twice their 1979 level.

Table XXIIA shows total wood pulp production, by major grades, as reported by API's Pulp, Materials and Technology Group. This table traces the rapid growth in production of the kraft and thermomechanical grades that occurred in the years shown. The table also shows estimates of wood pulp produced for use in the production of construction paper and insulating board.

Table XXIIB presents data on market wood pulp production. The major growth was shown by the chemical paper grades -- particularly bleached sulfate wood pulp.

The data on wood pulp consumption are shown on Table XXIII, along with data on consumption of pulpwood and other fibrous materials. It also shows data on consumption of wood pulp at construction paper and insulating board mills as estimated by API.

Employment and wage rate data, as published by the Bureau of Labor Statistics, are shown in Table XXIV. The table shows the decline in employment in recent years and the sharp reduction in the rate of increase of weekly and average hourly earnings from the rapid gains of the 1970's and early 1980's.

Table XXV combines the information on output and employment to show the trends in output per manhour. The data through 1986 were reported by the Bureau of Labor Statistics; the 1987 data were estimated by API.

The table shows that output per production-worker hour rose 39.5% from 1977 -- the base year of the BLS study -- to 1987, for an average growth of 3.4% per year. The BLS output data for this study are based on a value-weighted sum of each grade of paper and paperboard production, which thus increases the impact of the higher-valued products.

Table XXVI presents data on compensation of employees and related data as reported by the Bureau of Economic Analysis as part of its Gross National Product Accounts. The differences between total compensation and total wages and salaries are fringe benefits. These data include company operations outside the establishment data shown in Table XXXII, and thus present a more comprehensive view of employment costs in the paper and allied products industry.

Table XXVII presents information on expenditures on new plant and equipment by the paper and allied products industry. The data in the first column show total expenditures by those companies classified as paper and allied products companies. They include the total expenditures of these companies, but exclude expenditures at paper and allied establishments owned by non-paper companies.

The data in the other columns show expenditures at all paper and allied products establishments, regardless of ownership as reported by the Bureau of Census. Prior to 1978 these two series were more or less in line with each other. Since then the Bureau of Economic Analysis data have moved upward much faster than the Census data.

Table XXVIIIA shows data on expenditures on pollution abatement equipment. Paper companies have been spending about $300 million per year on this type equipment, largely at new new mills or to improve equipment at existing mills. Most of the necessary retrofitting has been completed. Table XXVIIIB present data on research and development expenditures. The industry spends the equivalent of 1% of sales for these purposes. The total exceeded $1 billion in 1987.

Table XXIX shows the 1976 data on wood supply and demand. These are the latest data available from the Forest Service of the Department of Agriculture. This is taken from the extensive study of the Forest Industries done by the Forest Service every ten years.

CHART 2

ENERGY & MATERIALS DEPARTMENT
AMERICAN PAPER INSTITUTE
260 Madison Avenue, New York, N.Y. 10016

PULP, PAPER & PAPERBOARD INDUSTRY

Changing Fuel Mix, 1972-1987

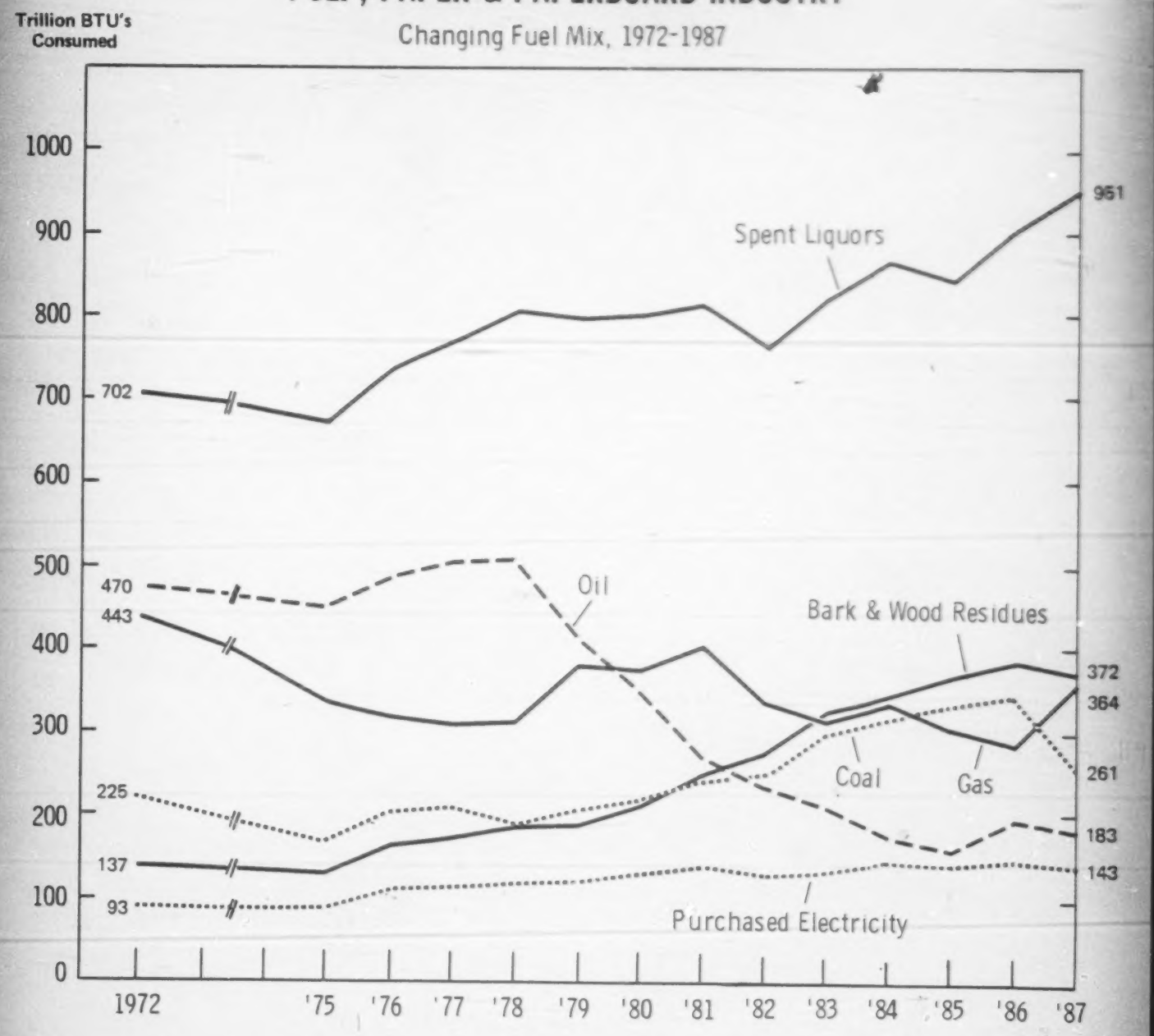

TABLE XIX

UNITED STATES

PULP, PAPER AND PAPERBOARD INDUSTRY

ESTIMATED FUEL AND ENERGY USE

1972, 1983 - 1987

		1972*R			1983*R			1984*R		
SOURCE	Units	Estimated Use	Billion BTU'S	% of Total+	Estimated Use	Billion BTU's	% of Total+	Estimated Use	Billion BTU's	% of Total
Purchased Electricity	MM KWH	27,559.5	93,698.4	4.4	41,109.2	139,904.9	6.5	43,287.8	147,316.3	6.6
Purchased Steam	MM lbs	19,548.3	22,613.0	1.1	15,426.4	17,246.1	0.8	17,657.5	19,983.1	0.9
Coal	M Tons	9,033.6	224,737.1	10.7	12,317.2	304,771.2	14.1	13,285.5	328,633.3	14.8
Residual Fuel Oil	M 42 gal BBLs	71,121.2	447,381.5	21.2	32,456.4	204,401.1	9.5	25,809.6	162,565.2	7.3
Distillate Fuel Oil	M 42 gal BBLs	3,698.9	22,020.9	1.0	978.0	5,822.3	0.3	1,189.6	7,088.1	0.3
Liquid Propane Gas	M gal	28,566.8	2,628.9	0.1	25,085.3	2,306.8	0.1	33,823.8	3,107.0	0.1
Natural Gas	MMCF	435,459.9	443,916.3	21.1	308,300.8	313,546.2	14.5	323,707.5	329,226.5	14.8
Other Purchased Energy			1,634.0	0.1		3,017.1	0.1		3,385.0	0.2
Energy Sold			(-13,125.0)			(22,402.8)			(29,747.9)	
Total Purchased Fossil Fuel and Energy			1,245,505.1	59.7		968,612.9	45.9		976.556.6	45.0
Hogged Fuel (50% Moisture Content)	M Tons	5,191.2	42,103.2	2.0	25,539.1	213,469.4	9.9	26,980.7	227,679.7	10.2
Bark (50% Moisture Content)	M Tons	10,348.2	94,428.9	4.5	13,621.9	118,195.6	5.5	14,098.8	123,135.3	5.5
Spent Liquor (Solids)	M Tons	55,175.5	698,393.4	33.3	68,460.8	818,806.6	37.7	71,152.9	851,670.4	38.3
Self-Generated Hydroelectric Power	MM KWH	2,696.4	9,171.3	0.4	2,856.8	9,886.3	0.5	2,917.3	10,140.9	0.5
Other Self-Generated Energy			2,977.4	0.1		10,359.5	0.5		10,662.0	0.5
Total Self-Generated & Waste Fuels			847,074.2	40.3		1,170,717.4	54.1		1,223,288.3	55.0
Total Energy			2,092,579.3	100.0		2,139,330.3	100.0		2,199,844.9	100.0

* Based on a sample of 93.6% of total dried pulp, paper and paperboard for 1984, 93.2% for 1983, and 90.1% for 1972.
\+ Determined by using "Total Energy" + "Energy Sold" as a denominator.
R Revised

SOURCE: Energy and Materials Department; Pulp, Materials and Technology Group; American Paper Institute.

TABLE XIX (Cont.)

UNITED STATES

PULP, PAPER AND PAPERBOARD INDUSTRY

ESTIMATED FUEL AND ENERGY USE

1972, 1983 - 1987

SOURCE	Units	1985*R Estimated Use	1985*R Billion BTU's	1985*R % of Total+	1986*R Estimated Use	1986*R Billion BTU's	1986*R % of Total+	1987* Estimated Use	1987* Billion BTU's	1987* % of Total+
Purchased Electricity	MM KWH	42,134.4	143,390.3	6.6	43,026.5	146,392.0	6.4	43,374.7	147,520.0	6.1
Purchased Steam	MM lbs	16,276.4	18,334.9	0.8	17,008.4	18,692.2	0.8	13,671.7	16,966.7	0.7
Coal	M Tons	13,545.8	335,103.7	15.3	13,791.1	340,969.1	14.9	13,345.5	332,820.0	13.9
Residual Fuel Oil	M 42 gal BBLs	23,732.8	149,537.7	6.8	31,142.2	187,078.4	8.2	25,393.4	159,818.4	6.7
Distillate Fuel Oil	M 42 gal BBLs	1,399.7	8,341.3	0.4	1,331.0	7,929.3	0.3	1,420.3	8,480.1	0.4
Liquid Propane Gas	M gal	36,726.5	3,372.7	0.2	31,197.8	2,910.3	0.1	29,806.6	2,737.3	0.1
Natural Gas	MMCF	300,780.2	305,737.8	14.0	280,538.7	285,619.4	12.5	338,452.1	345,287.2	14.4
Other Purchased Energy			2,946.2	0.1		3,203.3	0.1		24,823.7	1.0
Energy Sold			(24,278.3)			(-29,483.7)			(-31,795.4)	
Total Purchased Fossil Fuel and Energy			942,486.3	44.2		963,310.3	43.3		1,006,658.0	43.3
Hogged Fuel (50% Moisture Content)	M Tons	28,869.4	245,735.8	11.2	30,095.2	254,846.1	11.1	30,952.0	257,791.9	10.7
Bark (50% Moisture Content)	M Tons	14,268.2	122,465.8	5.6	15,375.9	132,441.7	5.8	16,779.3	134,869.3	5.6
Spent Liquor (Solids)	M Tons	69,714.1	837,069.2	38.3	74,528.1	897,406.4	39.1	76,918.4	949,556.5	39.5
Self-Generated Hydroelectric Power	MM KWH	2,457.4	8,845.2	0.4	2,664.3	9,064.1	0.4	3,447.0	11,658.6	0.5
Other Self-Generated Energy			7,514.4	0.3		7,322.7	0.3		10,599.3	0.4
Total Self-Generated & Waste Fuels			1,221,630.4	55.8		1,301,081.0	56.7		1,364,475.6	56.7
Total Energy			2,164,116.7	100.0		2,264,391.3	100.0		2,371,133.6	100.0

* Based on a sample of 91.3% of production of total dried pulp, paper and paperboard for 1987, 93.4% for 1986, and 93.9% for 1985.
\+ Determined by using "Total Energy" + "Energy Sold" as a denominator.
R Revised

SOURCE: Energy and Materials Department; Pulp, Materials and Technology Group; American Paper Institute.

TABLE XX

UNITED STATES

RECYCLABLE PAPER UTILIZATION AND RECOVERY

1970 - 1987

(Thousands of Tons)

YEAR	Paper and Board Production	New Supply Paper and Board	Recyclable Paper Consumption at Paper & Board Mills	Recyclable Paper Utilization Rate	Recyclable Paper for Molded Pulp, Insulation and other Uses	Exports	Imports	Total Recyclable Paper Recovered	Recyclable Paper Recovery Rate
1970	51,671	55,969	11,803	22.8%	418	408	(67)	12,562	22.4%
1971	53,163	57,450	12,106	22.8%	442	419	(68)	12,899	22.4%
1972	57,434	62,040	12,925	22.5%	447	415	(88)	13,699	22.1%
1973	59,900	65,004	14,094	23.5%	499	683	(87)	15,189	23.4%
1974	59,040	63,308	13,982	23.6%	489	1,307	(89)	15,689	24.8%
1975	50,976	54,113	11,748	23.0%	535	861	(72)	13,072	24.2%
1976	58,329	62,015	13,622	23.3%	630	1,273	(106)	15,419	24.9%
1977	60,040	64,241	14,058	23.4%	870	1,512	(92)	16,348	25.4%
1978	62,047	67,787	14,760	23.7%	502	1,599	(70)	16,791	24.8%
1979	64,345	69,796	15,361	23.8%	509	2,233	(78)	18,025	25.8%
1980	63,536	67,102	14,922	23.4%	473	2,664	(87)	17,972	26.8%
1981R	64,259	67,957	15,037	23.4%	480	2,213	(79)	17,650	26.0%
1982R	60,962	64,740	14,433	23.7%	487	2,127	(74)	16,973	26.2%
1983R	66,764	71,183	15,638	23.4%	484	2,573	(100)	18,595	26.1%
1984R	70,268	76,956	16,724	23.8%	460	3,235	(110)	20,309	26.4%
1985R	68,658	76,109	16,371	23.8%	478	3,286	(87)	20,048	26.3%
1986R	72,489	79,738	17,935	24.7%	493	3,749	(99)	22,078	27.7%
1987P	76,029	83,502	19,002	25.0%	504	4,422	(127)	23,801	28.5%

Paper and Board Production includes all grades of paper, paperboard, wet machine board, construction paper and board, excluding hard pressed board.

New Supply equals production plus imports less exports, excluding hard pressed board. Imports and exports include paper and paperboard converted products.

Utilization Rate is the ratio of recyclable paper consumption to total production of paper and board.

Recovery Rate is the ratio of recyclable paper collected to new supply of paper and paperboard.

Total Recyclable Paper Recovered is the sum of Recyclable Paper Consumption at Paper and Board Mills, other uses and exports less imports.

P - Preliminary

R - Revised

TABLE XXI

UNITED STATES

RECYCLABLE PAPER RECOVERY

1979-1987

(Thousands of Tons)

GRADE AND YEAR	Consumption at Paper and Board Mills	Consumption for Molded Pulp, Insulation and Other Uses	Exports	Sub Total	Imports	Total
Used Corrugated						
1979	6,967	-	960	7,927	(11)	7,916
1980	6,866	-	1,209	8,075	(13)	8,062
1981	6,910	-	991	7,901	(12)	7,889
1982	6,770	-	887	7,657	(11)	7,646
1983	7,443	-	993	8,436	(14)	8,422
1984	7,972	-	1,261	9,233	(17)	9,216
1985	7,899	-	1,311	9,210	(5)	9,205
1986R	8,634	-	1,530	10,164	(7)	10,157
1987P	9,214	-	1,922	11,136	(13)	11,123
Old Newspapers						
1979	2,321	509	336	3,166	(4)	3,162
1980	2,391	473	425	3,289	(10)	3,279
1981	2,372	488	425	3,285	(9)	3,276
1982	2,486	489	439	3,414	(12)	3,402
1983	2,508	485	461	3,454	(18)	3,436
1984	2,735	460	539	3,734	(15)	3,719
1985	2,700	475	626	3,801	(29)	3,772
1986R	2,924	493	766	4,183	(31)	4,152
1987P	3,037	504	870	4,411	(30)	4,381
Mixed Papers						
1979	2,648	-	648	3,296	(57)	3,239
1980	2,268	-	649	2,917	(55)	2,862
1981	2,233	-	474	2,707	(50)	2,657
1982	1,707	-	497	2,204	(45)	2,159
1983	1,908	-	705	2,613	(62)	2,551
1984	1,975	-	886	2,860	(69)	2,792
1985	1,902	-	880	2,781	(44)	2,738
1986R	2,045	-	694	2,739	(43)	2,696
1987P	2,096	-	738	2,834	(65)	2,769
Pulp Substitutes						
1979	2,308	-	154	2,462	(4)	2,458
1980	2,254	-	205	2,459	(9)	2,450
1981	2,307	-	192	2,499	(8)	2,491
1982	2,247	-	164	2,411	(1)	2,410
1983	2,456	-	190	2,646	(5)	2,641
1984	2,673	-	252	2,926	(6)	2,920
1985	2,494	-	179	2,673	(3)	2,670
1986R	2,045	-	312	3,074	(3)	3,071
1987P	2,928	-	366	3,294	(2)	3,292
High Grade Deinking						
1979	1,117	-	135	1,252	(2)	1,250
1980	1,142	-	176	1,318	(*)	1,318
1981	1,216	-	130	1,346	(*)	1,346
1982	1,224	-	140	1,364	(6)	1,358
1983	1,323	-	225	1,548	(1)	1,547
1984	1,369	-	297	1,666	(3)	1,663
1985	1,380	-	290	1,671	(6)	1,664
1986R	1,570	-	447	2,017	(16)	2,001
1987P	1,727	-	526	2,253	(18)	2,235
Total All Grades						
1979	15,361	509	2,233	18,103	(78)	18,025
1980	14,922	472	2,664	18,058	(87)	17,971
1981	15,037	488	2,213	17,738	(79)	17,659
1982	14,433	489	2,127	17,049	(74)	16,975
1983	15,638	485	2,573	18,696	(100)	18,596
1984	16,724	460	3,235	20,419	(110)	20,309
1985	16,375	475	3,287	20,136	(87)	20,049
1986R	17,935	493	3,749	22,177	(100)	22,077
1987P	19,002	504	4,422	23,928	(127)	23,801

SOURCE: 1979-1986 API Capacity Surveys
1987 API Paper Recycling Division

* Less than 500 tons R = Revised P = Preliminary - = Zero

TABLE XXIIA

UNITED STATES PRODUCTION OF WOOD PULP

1975 - 1987

(000 Short Tons)

	1975R	1976R	1977R	1978R	1979R	1980R	1981R	1982R	1983R	1984R	1985R	1986	1987
WOOD PULP, TOTAL[1]	41,582	46,505	47,979	48,320	50,836	52,229	53,397	50,379	53,504	56,521	54,957	57,782	60,331
Total API Grades[2]	40,584	45,385	46,648	46,888	49,366	50,734	52,042	49,334	52,454	55,471	54,147	57,002	59,551
Sp. Alpha & Dissolving Grades	1,368	1,485	1,465	1,411	1,497	1,508	1,353	1,092	1,261	1,206	1,174	1,257	1,311
Paper and Board Grades	40,214	45,020	46,513	46,908	49,340	50,721	52,045	49,287	52,242	55,315	53,783	56,525	59,020
API Paper & Board Grades	39,216	43,900	45,184	45,476	47,868	49,226	50,689	48,242	51,192	54,264	52,973	55,745	58,240
Total Sulfite	2,025	2,169	2,042	1,750	1,775	1,844	1,802	1,587	1,616	1,618	1,560	1,439	1,439
Bleached Sulfite	1,659	1,750	1,653	1,420	1,379	1,459	1,403	1,242	1,306	1,359	1,364	1,275	1,268
Unbl. Sulfite	366	419	389	330	396	385	399	345	310	259	196	164	171
Total Sulfate	29,357	33,599	34,857	36,095	37,641	38,591	39,644	37,891	40,697	43,071	42,136	44,639	46,853
Bl. & Semi-Bl.[3]	14,130	15,773	16,452	17,113	18,051	19,000	20,070	19,721	21,107	22,350	22,626	24,158	25,411
Unbl. Sulfate	15,227	17,826	18,405	18,982	19,590	19,591	19,574	18,170	19,590	20,721	19,510	20,481	21,442
Total Groundwood	4,414	4,304	4,409	4,140	4,392	4,766	5,319	5,064	5,067	5,506	5,251	5,476	5,702
Stone and Refiner	4,414	4,304	4,047	3,638	3,755	3,602	3,735	3,395	3,225	3,361	3,118	3,010	2,962
Thermo-mechanical				362	502	637	1,164	1,584	1,669	1,842	2,145	2,476	2,740
Semichemical	3,420	3,828	3,876	3,491	4,060	4,025	3,924	3,700	3,812	4,069	4,026	4,191	4,246
Total Other	998	1,120	1,330	1,432	1,470	1,495	1,355	1,045	1,050	1,050	810	780	780
Defib. or Exploded[4]	890	1,010	1,120	1,122	1,070	975	850	625	620	620	550E	520E	520
Scr., Damaged[5]	108E	110E	110E	110E	100E	80E	90E	20E	30E	30E	30E	30E	30E
Groundwood			100E	200E	300E	440	415	400	400	400E	230E	230E	230E

SOURCE: Pulp, Materials and Technology Group - API

1/ These totals are comparable to the capacity data published on Table XIII, Wood Pulp Capacity. Excludes defibrated and exploded wood pulp for hardboard.

2/ Excludes Total Other

3/ Includes Soda Pulp

4/ Estimated to exclude wood pulp for hardboard. Source of original data is Bureau of the Census.

5/ Source: 1974-1975: U.S. Bureau of the Census

E - Estimated

TABLE XXIIB

UNITED STATES PRODUCTION OF MARKET WOOD PULP

1975 - 1987

(000 Short Tons)

	1975	1976	1977	1978R	1979	1980R	1981	1982	1983R	1984	1985R	1986	1987
MARKET WOOD PULP, TOTAL	4,344	4,870	4,820	5,162	5,678	6,465	6,203	5,732	6,526	6,899	6,800	7,573	8,114
Sp. Alpha & Dissolving	1,213	1,370	1,462	1,406	1,497	1,506	1,350	1,089	1,260	1,204	1,172	1,252	1,308
Paper Grade Chemical Total	3,074	3,430	3,263	3,674	4,117	4,891	4,852	4,643	5,255	5,680	5,613	6,316	6,806
Bleached Sulfite	314	292	219	232	248	349	263	205	230	262	223	224	245
Unbleached Sulfite	27	28	13	19	28	32	3	0	0	0	0	0	0
Bl. & Semi-Bl. Sulfate	2,646	2,997	2,895	3,294	3,729	4,378	4,442	4,315	4,883	5,264	5,242	5,939	6,377
Unbleached Sulfate	87	113	136	129	112	132	144	123	142	154	149	153	182
Paper Grades - Other	36	70	94	81	63	69	0	1	12	15	15	5	0

SOURCE: Pulp, Materials and Technology Group - API

TABLE XXIII

UNITED STATES CONSUMPTION OF PULPWOOD, WOOD PULP AND OTHER FIBROUS MATERIALS IN PAPER AND PAPERBOARD MILLS

1975 - 1987

(000 Short Tons)

	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985R	1986R	1987P
WOOD PULP, TOTAL*	40,863	45,894	46,824	48,223	50,058	51,181	51,437	48,706	52,072	55,644	54,301	57,888	60,106
Special Alpha and Dissolving Grades	42	36	44	42	42	41	38	30	37	34	34	40	49
Bleached Sulfite	1,768	1,985	1,884	1,587	1,726	1,664	1,591	1,500	1,592	1,660	1,615	1,773	1,757
Unbleached Sulfite	442	501	481	407	468	464	464	465	435	413	341	348	385
Bleached Sulfate	12,919	14,447	15,228	16,043	16,685)								
Semi-bleached Sulfate	1,453	1,517	1,378	1,795	1,769)	18,941 1/	18,992	19,090	20,376	21,755	22,332	23,577	24,643
Unbleached Sulfate	15,430	17,527	18,149	18,694	19,307)								
Soda	166	121	121	118	127)	19,707	19,887	18,252	19,803	21,092	19,599	21,252	22,193
Groundwood	4,546	5,085	4,497	4,281	4,396	4,277	4,391	3,889	3,944	3,877	3,516	3,314	3,322
Thermomechanical	-	-	368	441	559	1,078	1,468	1,471	1,670	2,160	2,252	2,527	2,797
Semichemical	3,120	3,546	3,521	3,609	3,860	3,948	3,666	3,364	3,565	4,003	3,993	4,237	4,340
Defibrated or Expl. & Scngs, Damaged, etc.	849	993	1,019	1,075	1,015	955	850	625	) 650	) 650	) 620	) 620	) 620
	125	135	134	131	104	106	90	20	)	)	)	)	)
OTHER FIBROUS MAT., TOTAL	12,373	14,364	14,884	15,584	16,088	15,524	15,629	14,882	16,069	17,089	16,666	18,248	19,321
Recyclable Paper	11,748	13,622	14,058	14,760	15,361	14,922	15,037	14,433	15,638	16,724	16,371	17,935	19,002
All Other, incl. Straw, Rags, etc.	625	742	826	824	727	602	592	449	431	365	295	313	319
TOTAL FIBROUS MATERIALS	53,236	60,258	61,708	63,807	66,146	66,705	67,066	63,588	68,141	72,733	70,967	75,936	79,427
PULPWOOD, TOTAL**	65,421	73,209	73,970	77,290	79,566	79,703	81,178	76,257	85,442	87,646	85,744	91,434	93,946
Softwood	48,932	54,789	55,509	57,096	58,654	58,809	59,631	55,954	61,947	62,558	60,610	63,127	65,177
Hardwood	16,489	18,420	18,461	20,194	20,912	20,894	21,547	20,303	23,495	25,088	25,134	28,307	28,769
Receipts of Residues	28,694	28,165	29,653	30,380	30,015	29,402	30,590	31,152	32,755	32,072	30,496	32,754	32,899
CONSUMPTION OF WOOD PULP IN OTHER THAN PAPER AND PAPERBOARD MILLS													
TOTAL WOOD PULP	785	886	879	884	909	825	788	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Sp.Alpha & Dis. Grades	600	705	702	676	701	629	609	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Other Wood Pulps	185	181	177	208	208	196	179	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

SOURCE: Consumption in paper and board mills of wood pulp - 1972-1986 - Bureau of the Census, Industry Division
1987 American Paper Institute
Consumption of recyclable paper - American Paper Institute
Consumption of other fibrous materials - Bureau of the Census, Industry Division, 1974-1980; 1981-1986, A.P.I.
Consumption of pulpwood - American Pulpwood Association

* Includes figures for Alaska; excludes wood pulp for hard pressed board.

** Includes slabs, chips and mill waste. All pulpwood data in thousands of cords.

R - Revised E - Estimated by American Paper Institute P - Preliminary

Note: Details may not add to totals due to rounding of figures to nearest thousand.
Recyclable paper consumption - Bureau of the Census data (000 tons)
1972 - 11,703; 1973 - 12,374; 1974 - 12,098; 1975 - 10,367; 1976 - 11,874; 1977 - 12,103; 1978 - 12,586; 1979 - 13,012; 1980 - 12,583; 1981 - 12,872; 1982 - 13,563; 1983 - 14,170; 1984 - 14,944; 1985 - 14,818; 1986 - 15,419

1/ Soda included in bleached and semibleached sulfate wood pulp.

N.A. - Not Available

TABLE XXIV

WAGE RATES AND EMPLOYMENT

PAPER AND ALLIED PRODUCTS INDUSTRY

1970 - 1987

YEAR	Average Hourly Earnings (Dollars)	Average Weekly Earnings (Dollars)	Average Weekly Hours	Employees	
				Total	Production Workers
				(Thousands)	
PAPER AND ALLIED PRODUCTS - SIC 26					
1970	3.44	144.14	41.9	705.5	543.2
1971	3.67	154.51	42.1	681.9	521.8
1972	3.95	169.06	42.8R	688.9	531.6
1973	4.20	180.18	42.9	704.6	543.1
1974	4.53	191.17R	42.2	706.1	544.3
1975	5.01	208.42	41.6	642.0	479.7
1976	5.47	232.48	42.5	675.5	508.3
1977	5.96	255.68	42.9	691.6	518.2
1978	6.52	279.71	42.9	698.7	524.7
1979	7.13	303.74	42.6	706.8	535.6
1980	7.84	330.85	42.2	692.8	522.7
1981	8.60	365.50	42.5	688.5	518.4
1982	9.32	389.58	41.8	662.4	493.9
1983	9.93	423.02	42.6	661.2	494.5
1984	10.41	448.67	43.1	680.9	511.6
1985	10.83	466.77	43.1	677.7	512.1
1986	11.18	482.98	43.2	673.7	511.0
1987	11.43	496.06	43.4	679.0	515.7
PAPER AND PULP* - SIC 261,262,266					
1970	3.80	166.06	43.7	218.8	168.6
1971	4.05	177.80	43.9	208.8	160.6
1972	4.37	194.03	44.4	206.5	160.6
1973	4.66	208.77	44.8	208.7	162.7
1974	5.00	222.50	44.5	210.7	164.0
1975	5.54	240.44	43.4	196.8	150.3
1976	6.12	272.95	44.6	203.9	156.4
1977	6.75	302.40	44.8	205.4	157.3
1978	7.44	334.80	45.0	200.1	151.1
1979	8.26	372.53	45.1	205.9	154.7
1980	9.15	407.18	44.5	203.3	152.2
1981	10.06	449.68	44.7	203.8	153.2
1982	10.87	480.45	44.2	198.5	149.0
1983	11.70	520.65	44.5	198.0	149.0
1984	12.43	559.35	45.0	200.0	150.6
1985	13.14	591.30	45.0	197.0	149.4
1986	13.63	616.08	45.2	194.5	148.8
1987	14.00	638.40	45.6	191.1	145.4
PAPER MILLS EXCEPT BUILDING PAPER - SIC 262					
1972	4.36	194.46	44.6	179.2	138.6
1973	4.64	209.26	45.1	180.8	140.1
1974	4.97	222.66	44.8	182.7	141.1
1975	5.52	240.67	43.6	170.9	129.5
1976	6.10	273.89	44.9	176.4	134.2
1977	6.70	300.83	44.9	175.7	133.6
1978	7.43	336.58	45.3	170.3	127.6
1979	8.24	374.92	45.5	176.8	131.5
1980	9.09	408.14	44.9	175.0	129.7
1981	10.00	454.00	45.4	175.6	130.9
1982	10.86	485.44	44.7	171.3	127.2
1983	11.70	524.16	44.8	173.7	128.5
1984	12.46	563.19	45.2	175.5	130.7
1985	13.21	774.11	58.6	173.5	130.5
1986	13.70	621.98.	45.4	170.2	129.4
1987	14.07	644.41	45.8	167.4	126.7

* Includes Building Paper and Board Mills

SOURCE: Bureau of Labor Statistics, Employment and Earnings, Tables B-2 and C-2, U.S. Department of Labor, Washington, D.C.

NOTE: Data on hours and earnings refer to Production Non-Supervisory Workers. R - Revised

TABLE XXIV (Cont.)

WAGE RATES AND EMPLOYMENT

PAPER AND ALLIED PRODUCTS INDUSTRY

1970 - 1987

YEAR	Average Hourly Earnings (Dollars)	Average Weekly Earnings (Dollars)	Average Weekly Hours	Employees	
				Total	Production Workers
				(Thousands)	
PAPERBOARD - SIC 263					
1970	3.86	171.77	44.5	71.1	56.8
1971	4.14	184.23	44.5	66.0	51.4
1972	4.47	200.70	44.9	66.0	52.6
1973	4.78	212.23	44.4	66.1	52.5
1974	5.14	225.65	43.9	65.5	52.3
1975	5.74	243.95	42.5	60.8	47.9
1976	6.40	280.32	43.8	65.6	52.2
1977	6.94	312.30	45.0	66.9	52.4
1978	7.67	340.55	44.4	67.3	52.8
1979	8.38	367.88	43.9	65.5	51.9
1980	9.28	408.32	44.0	65.1	51.0
1981	10.23	450.12	44.0	63.5	49.8
1982	11.11	474.40	42.7	60.4	46.7
1983	12.11	525.57	43.4	58.2	44.5
1984	12.99	575.46	44.3	57.2	43.8
1985	13.60	599.76	44.1	55.3	42.4
1986	13.98	619.31	44.3	53.6	40.8
1987	14.30	632.06	44.2	53.8	40.6
MISCELLANEOUS CONVERTED PAPER PRODUCTS - SIC 264					
1970	3.12	126.05	40.4	190.1	138.4
1971	3.36	136.42	40.6	190.2	139.2
1972	3.61	151.26	41.9	196.4	143.1
1973	3.85	161.32	41.9	205.4	148.8
1974	4.19	173.05	41.3	210.6	155.8
1975	4.57	185.09	40.5	190.5	133.6
1976	4.92	202.21	41.1	200.8	140.8
1977	5.33	219.60	41.2	210.2	147.5
1978	5.82	239.20	41.1	217.8	155.9
1979	6.31	259.34	41.1	221.4	163.7
1980	6.89	279.73	40.6	219.6	162.7
1981	7.58	310.02	40.9	220.1	162.0
1982	8.20	332.10	40.5	213.5	154.7
1983	8.71	361.47	41.5	214.4	155.8
1984	9.09	379.05	41.7	226.5	165.4
1985	9.33	390.93	41.9	228.5	168.0
1986	9.62	403.08	41.9	229.0	168.8
1987	9.90	416.79	42.1	231.9	172.3
PAPERBOARD CONTAINERS & BOXES - SIC 265					
1970	3.18	128.79	40.5	225.5	179.3
1971	3.40	139.06	40.9	216.8	170.6
1972	3.64	151.06	41.5	219.9	175.3
1973	3.88	160.63	41.4	224.5	179.0
1974	4.16	168.06	40.4	219.3	172.2
1975	4.59	186.35	40.6	193.9	148.0
1976	4.95	204.44	41.3	205.2	158.9
1977	5.36	224.05	41.8	209.1	161.0
1978	5.89	247.97	42.1	213.5	164.9
1979	6.37	263.08	41.3	214.0	165.4
1980	6.94	285.93	41.2	204.9	156.8
1981	7.53	312.50	41.5	201.2	153.5
1982	8.16	329.66	40.4	190.0	143.6
1983	8.60	358.62	41.7	190.6	145.1
1984	8.92	377.32	42.3	197.2	151.8
1985	9.24	389.00	42.1	196.9	152.3
1986	9.58	407.15	42.5	196.6	152.6
1987	9.76	415.78	42.6	202.2	157.5

SOURCE: Bureau of Labor Statistics, Employment and Earnings, Tables B-2 & C-2, & Labstat Series Report, U.S. Dept. of Labor, Washington, DC

NOTE: Data on hours and earnings refer to Production and Non-Supervisory Workers. R - Revised

TABLE XXV

PULP, PAPER AND BOARD MILLS

OUTPUT PER MAN-HOUR

1947 - 1987

YEAR	Output per Employee Hour		Output	Employee Hours	
	Production Workers	All Employees		Production Workers	All Employees
			-1977 = 100-		
1947	29.4	32.4	31.7	108.0	97.9
1948	N.A.	N.A.	33.0	N.A.	N.A.
1949	31.3	33.8	30.7	98.0	90.7
1950	35.0	38.1	36.7	104.8	96.3
1951	36.8	39.8	40.0	108.7	100.6
1952	36.3	38.9	38.0	104.7	97.6
1953	36.3	38.9	40.6	111.8	104.3
1954	37.9	40.4	41.4	109.1	102.5
1955	40.4	43.2	46.4	114.9	107.3
1956	42.5	45.1	49.2	115.7	109.1
1957	42.9	45.1	47.9	111.7	106.3
1958	44.1	46.2	48.1	109.1	104.2
1959	46.9	49.0	53.6	114.4	109.4
1960	48.8	50.6	54.8	112.2	108.3
1961	52.2	53.9	56.5	108.3	104.9
1962	54.2	56.0	59.5	109.8	106.3
1963	57.4	59.3	62.7	109.2	105.8
1964	60.3	62.3	66.7	110.6	107.0
1965	63.7	65.4	70.6	110.9	107.9
1966	66.9	68.7	76.1	113.8	110.8
1967	66.1	67.6	75.9	114.8	112.2
1968	69.9	71.9	81.6	116.8	113.5
1969	72.5	74.8	85.9	118.5	114.9
1970	75.8	77.5	85.1	112.2	109.8
1971	80.1	81.0	86.0	107.3	106.2
1972	86.7	87.9	92.8	107.0	105.6
1973	90.2	91.5	97.1	107.7	106.1
1974	90.5	91.5	96.7	106.8	105.7
1975	87.7	86.7	82.1	93.6	94.7
1976	95.0	95.0	95.6	100.6	100.6
1977	100.0	100.0	100.0	100.0	100.0
1978	103.7	103.2	102.4	98.7	99.2
1979	106.2	105.4	106.0	99.8	100.6
1980	106.4	105.2	105.3	99.0	100.1
1981	105.5	104.4	102.4	97.1	98.1
1982	113.7	111.3	103.1	90.7	92.6
1983R	121.3	119.5	110.9	91.4	92.8
1984R	123.1	121.0	115.1	93.5	95.1
1985R	123.4	120.3	113.0	91.6	93.9
1986R	131.4	128.8	119.7	91.1	92.9
1987E	139.5	136.0	125.7	90.1	92.4

SOURCE: U.S. Department of Labor - Bureau of Labor Statistics.
E - Estimated by A.P.I. R - Revised

TABLE XXVI

COMPENSATION OF EMPLOYEES IN THE PAPER AND ALLIED PRODUCTS INDUSTRY

IN THE GROSS NATIONAL PRODUCT ACCOUNTS

1948 - 1987

YEAR	COMPENSATION OF EMPLOYEES			Corporate Capital Consumption Allowance	Number of Full Time Equivalent Employees (000)	Number of Full Time & Part Time Employees (000)	Average Annual Earnings per Full Time Equivalent Employee (Dollars)
	Total	Wages and Salaries	Supplements to Wages & Salaries*				
	(Millions of Dollars)						
1948	1,577	1,501	76	122	470	470	3,194
1949	1,548	1,465	83	140	451	453	3,248
1950	1,788	1,686	102	154	482	485	3,498
1951	2,057	1,923	134	179	504	510	3,815
1952	2,143	2,004	139	204	497	504	4,032
1953	2,375	2,224	151	234	523	533	4,252
1954	2,457	2,292	165	275	522	534	4,391
1955	2,684	2,499	185	338	537	551	4,654
1956	2,919	2,712	207	370	554	570	4,895
1957	3,038	2,812	226	419	555	567	5,067
1958	3,117	2,868	249	464	542	558	5,292
1959	3,436	3,152	284	474	567	582	5,559
1960	3,596	3,288	308	496	576	592	5,708
1961	3,791	3,464	327	541	582	599	5,952
1962	4,042	3,678	364	653	598	615	6,151
1963	4,222	3,828	394	665	605	622	6,327
1964	4,446	4,028	418	721	607	625	6,636
1965	4,696	4,250	446	734	628	640	6,768
1966	5,133	4,616	517	771	656	667	7,037
1967	5,415	4,876	539	837	672	680	7,256
1968	5,885	5,267	618	898	681	691	7,734
1969	6,496	5,768	728	955	705	713	8,182
1970	6,788	5,994	794	1,007	694	702	8,637
1971	7,039	6,172	867	1,060	669	679	9,226
1972	7,708	6,704	1,004	1,167	674	684	9,947
1973	8,466	7,290	1,176	1,249	689	700	10,581
1974	9,216	7,885	1,331	1,281	688	701	11,461
1975	9,350	7,921	1,429	1,435	628	642	12,613
1976	10,909	9,167	1,742	1,667	662	673	13,847
1977	12,192	10,182	2,010	1,889	679	692	14,996
1978	13,498	11,219	2,279	2,126	690	700	16,259
1979	14,965	12,379	2,586	2,128	697	707	17,760
1980	16,199	13,384	2,815	2,564	681	691	19,653
1981	17,658	14,541	3,117	2,842	679	687	21,409
1982	18,250	14,994	3,256	3,287	649	663	23,103
1983	19,459	15,994	3,465	3,403	650	662	24,606
1984R	21,180	17,476	3,704	4,304	666	680	26,240
1985R	21,986	18,280	3,706	5,157	667	679	27,406
1986R	22,990	19,126	3,864	N.A.	664	676	28,804
1987P	23,959	19,979	3,980	N.A.	674	683	29,642

SOURCE: Bureau of Economic Analysis, Department of Commerce, Gross National Product Accounts, Table 6

* Total Less Wages and Salaries

P - Preliminary R - Revised N.A. - Not Available

TABLE XXVII

PAPER AND ALLIED PRODUCTS

CAPITAL EXPENDITURES

1947 - 1987

(Million Dollars)

YEAR	BY PAPER AND ALLIED PRODUCTS COMPANIES	AT PAPER AND ALLIED PRODUCTS ESTABLISHMENTS							
			PRIMARY MILLS				CONVERTED PLANTS		
		Total SIC 26	Total Primary 261-3,6	Pulp Mills 261	Paper Mills 262	Paperboard Mills 263	Building Paper & Board Mills 266	Total Converting 264,5	Converted Paper Products 264	Paperboard Containers & Boxes 265
1947	370	407	291	86	- - - 205- - - - -		a	116	64	52
1948	383	- - - -

TABLE XXVIIIA

PULP AND PAPER INDUSTRY ENVIRONMENTAL PROTECTION

CAPITAL EXPENDITURES THROUGH 1986 AND PLANNED THROUGH 1987

1966-1987

(Million Dollars)

YEAR	Water	Air	Solid Waste Disposal From Manufacturing	Total	Percent of Total Capital Expenditures
1966	270	129	10	409	
1967	44	31(E)	1(E)	76	
1968	49	43(E)	1(E)	93	
1969	74	52(E)	2(E)	128	
1970	120	65(E)	2(E)	187	
1971	134	66	2.5	203	
1972	205	129	5	339	38
1973	179	162	10	351	34
1974	216	296	11	523	31
1975	286	341	18	645	30
1976	319	216	29	564	29
1977	278	148	17	443	19
1978	182	149	32	363	16
1979	178	158	23	359	12
1980	140	190	38	368	9
1981	91	120	49	260	6
1982	81	214	23	318	9
1983	118	149	60	327	6
1984	62	130	34	226	6
1985	121	175	46	342	7
1986	80	109	48	237	4
Through 1986	3,227	3,072	462	6,761	
Planned 1987	105	120	93	324	

SOURCE: National Council of the Paper Industry for Air and Stream Improvement
(E) - Estimate R - Revised

TABLE XXVIIIB

PAPER AND ALLIED PRODUCTS

EXPENDITURES ON

RESEARCH AND DEVELOPMENT

1966-1988

(Million Dollars)

YEAR	Total Expenditures
1966	117
1967	128
1968	144
1969	188
1970	178
1971	187
1972	189
1973	194
1974	237
1975	249
1976	313
1977	333
1978	387
1979	445
1980	495
1981	566
1982	626
1983	674
1984	801R
1985	861
1986	894*
1987	1029*
1988	1077*

SOURCE: National Science Foundation
*DRI/McGraw-Hill

TABLE XXIX

WOOD SUPPLY AND DEMAND

	Total	New England States	Middle Atlantic States	Lake States	Central States	Southern States	Pacific Coast States	Rocky Mountain States
	Million Acres							
Commercial Forest Land in U.S. January 1, 1977	482.5	31.0	46.4	47.6	41.2	188.0	70.5	57.8
Ownership by Forest Industry Companies	68.8	9.7	3.2	4.2	0.8	36.2	12.5	2.1
% of Industry	14.3%	31.4%	6.9%	8.8%	2.0%	19.3%	17.8%	3.6%
	Million Cubic Feet							
All Species								
Total Growth	21,664	1,345	1,795	1,617	1,035	10,705	3,478	1,690
Removals	14,229	639	663	719	637	6,571	4,154	845
Mortality	3,925	226	322	529	142	1,121	1,087	498
Removals and Mortality as Percent of Growth	83.8%	64.4%	54.9%	77.2%	75.3%	71.9%	150.7%	79.5%
Softwoods								
Total Growth	13,285	838	229	463	69	6,158	2,938	1,589
Removals	10,046	396	103	181	25	4,471	4,028	842
Mortality	2,303	137	54	130	7	512	1,003	459
Removals and Mortality as Percent of Growth	100.5%	63.6%	68.6%	67.3%	46.7%	80.9%	171.2%	81.8%
Hardwoods								
Total Growth	9,380	506	1,566	1,154	965	4,547	541	100
Removals	4,183	244	560	538	612	2,100	126	3
Mortality	1,622	88	268	399	135	609	84	39
Removals and Mortality as Percent of Growth	61.9%	65.6%	52.9%	81.2%	77.4%	59.6%	38.8%	42.1%

New England States	Middle Atlantic States	Lake States	Central States	Southern States	Pacific Coast States	Rocky Mountain States
Connecticut	Delaware	Michigan	Illinois	North Carolina	Alaska	Idaho
Maine	Maryland	Minnesota	Indiana	South Carolina	Oregon	Montana
Massachusetts	New Jersey	North Dakota	Iowa	Virginia	Washington	South Dakota (West)
New Hampshire	New York	South Dakota (East)	Kansas	Florida	California	Wyoming
Rhode Island	Pennsylvania	Wisconsin	Kentucky	Georgia	Hawaii	Arizona
Vermont	West Virginia		Missouri	Alabama		Colorado
			Nebraska	Mississippi		Nevada
			Ohio	Tennessee		Mexico
				Arkansas		Utah
				Louisiana		
				Oklahoma		
				Texas		

SOURCE: An Analysis of the Timber Situation in the United States 1952-2030, U.S. Department of Agriculture, Forest Service, Forest Resource Report No. 23, December 1982. Commercial Forest Land and Ownership Table 3.4. Data refer to 1976 Growth, Removals and Mortality Table 3.45

SECTION IV

FINANCIAL DATA ON THE PAPER INDUSTRY

Table XXX presents information on the financial structure of the paper and allied products industry group for the period 1950 through 1987, drawn from the Quarterly Financial Reports now published by the Bureau of the Census. These annual totals are the sum of the quarterly reported totals.

At the end of each year the Bureau of the Census analyzes the structure of the corporations included in this survey and reassigns these corporations, as necessary, to the industry group that best reflects their major line of operations. Both the preliminary and revised data, where applicable, are presented in this table.

While some of the past revisions, such as those in 1974, 1977 and 1980 were sizable, none was as large as those for 1987. The original complement of companies showed their total 1987 sales at $86.6 billion; the revised complement $95.6 billion. Confidentiality restrictions prevent Census from reporting the names of the companies included in each industry. However, we do know that the new complement of paper and allied products includes one or more companies previously counted in with lumber and wood products. It also appears that Census added one or more of the newer paper companies that had not previously been included in their totals.

The original 1987 data showed that the strong upward trend in sales and earnings that started after the 1982 recession accelerated in 1987, bringing the dollar totals to record highs. The ratio of net profit to sales rose to a 7-year high of 5.8%. This ratio had fallen sharply, to 2.4%, in 1982, and recovered only slowly in the subsequent four years. The 1987 ratio may be compared to the 1975-1979 average of 5.7% and the longer-term -- 1960-1980 -- average of 5.1%.

Table XXX presents the producer price indexes published by the Bureau of Labor Statistics on the paper and allied products industry. The table presents the original product classifications as well as the newer classifications consistent with the Bureau of Census's Product Codes.

Table XXXII presents data on the paper and allied products industry group for 1985 and 1986 as published by the Bureau of Census in its 1986 Survey of Manufactures. The data are based on a survey of establishments classified to the industries shown. Each establishment is considered separately, so the value of shipments is not consistent with corporate sales. The table shows data on employee cost and the cost of materials that are virtually unavailable from any other source.

TABLE XXX

PAPER AND ALLIED PRODUCTS INDUSTRY

PROFIT AND LOSS DATA, CASH INFLOW AND SELECTED BALANCE SHEET DATA

1950 - 1987

(Millions of Dollars)

YEAR	Net Sales	Net Profit Before Taxes	Net Profit Before Taxes To Net Sales (%)	Income Taxes	Net Profit After Taxes	Net Profit After Taxes To Net Sales (%)	Depreci-ation	Cash Inflow	Gross Cash Flow
1950	6,377	982	15.4	424	558	8.8	162	720	1,144
1951	8,022	1,417	17.7	858	559	6.9	183	742	1,600
1952	7,688	1,000	13.0	563	437	5.7	222	659	1,222
1953	8,371	1,005	12.0	554	450	5.4	242	692	1,246
1954	8,492	970	11.4	493	479	5.6	268	718	1,211
1955	9,847	1,206	12.2	601	604	6.1	310	914	1,515
1956	10,686	1,283	12.0	626	657	6.1	360	1,017	1,643
1957	10,420	1,020	9.8	497	521	5.0	376	897	1,394
1958 1/	10,256	899	8.8	440	460	4.5	406	866	1,306
1958 2/	10,658	987	9.3	481	506	4.7	423	929	1,410
1959	11,824	1,204	10.2	585	619	5.2	459	1,078	1,663
1960	11,764	1,135	9.6	546	587	5.0	480	1,069	1,613
1961	12,525	1.120	8.9	535	583	4.7	531	1,114	1,649
1962	13,698	1,212	8.8	584	628	4.6	583	1,211	1,795
1963	14,050	1,215	8.6	581	634	4.5	615	1,249	1,830
1964	14,771	1,312	8.9	557	754	5.1	641	1,395	1,952
1965 1/	16,224	1,488	9.2	619	869	5.4	671	1,539	2,159
1965 2/	15,217	1,271	8.4	517	753	4.9	632	1,385	1,902
1966	17,016	1,544	9.1	633	911	5.4	676	1,587	2,220
1967 2/	16,900	1,316	7.8	523	796	4.7	723	1,519	2,039
1968	18,738	1,534	8.2	645	889	4.7	780	1,669	2,314
1969	20,607	1,675	8.1	688	987	4.8	821	1,808	2,496
1970	21,069	1,211	5.7	492	719	3.4	869	1,588	2,080
1971 1/	22,224	967	4.4	455	512	2.3	926	1,438	1,893
1971 2/	- - -

TABLE XXX (Cont.)

PAPER AND ALLIED PRODUCTS INDUSTRY

PROFIT AND LOSS DATA, CASH INFLOW AND SELECTED BALANCE SHEET DATA

1950 - 1987

(Millions of Dollars)

YEAR	Cash Dividends	Retained Earnings	Net Cash Flow	Total Assets	Property Plant & Equipment Gross	Property Plant & Equipment Net	Net Worth	Long Term Debt	Total Capital	Net Profit After Taxes To Net Worth (%)
1950	178	380	542	5,055	N.A.	2,285	3,585	490	4,075	15.6
1951	200	359	542	6,005	N.A.	2,600	3,963	625	4,588	14.1
1952	196	241	463	6,301	4,643	2,777	4,298	784	5,082	10.1
1953	203	247	489	6,825	5,349	3,273	4,559	803	5,362	9.9
1954	227	252	520	7,085	5,694	3,367	4,963	908	5,871	9.7
1955	259	345	655	7,785	6,171	3,623	5,403	1,010	6,413	11.2
1956	273	384	744	8,492	7,028	4,213	5,772	1,286	7,058	11.4
1957	270	251	627	8,407	7,502	4,509	5,809	1,309	7,118	8.9
19581/	265	195	601	8,829	7,941	4,652	6,089	1,472	7,561	7.6
19582/	286	220	643	9,170	8,200	4,818	6,341	1,500	7,841	8.0
1959	290	329	788	9,721	8,740	5,062	6,642	1,512	8,154	9.3
1960	312	275	755	10,087	9,432	5,385	6,956	1,622	8,578	8.4
1961	328	255	786	11,051	10,447	5,857	7,612	1,719	9,331	7.6
1962	340	288	871	11,670	11,058	6,062	7,766	1,953	9,719	8.1
1963	348	286	901	11,859	11,420	6,079	7,886	1,964	9,850	8.0
1964	376	378	1,019	12,560	12,380	6,585	8,304	1,967	10,271	9.1
19651/	409	461	1,132	13,850	13,378	7,321	8,672	2,439	11,111	10.0
19652/	350	403	1,035	13,017	13,047	7,053	8,165	2,447	10,612	9.2
1966	372	539	1,215	14,621	14,662	8,131	8,710	3,104	11,814	10.5
19672/	391	405	1,128	15,645	15,403	8,579	9,011	3,736	12,747	8.8
1968	396	493	1,273	16,809	16,059	8,964	9,303	4,199	13,502	9.6
1969	418	569	1,390	18,794	17,169	9,529	10,212	4,267	14,479	9.7
1970	430	289	1,158	19,679	18,160	9,969	10,305	4,822	15,127	7.0
19711/	418	94	1,020	20,424	19,001	10,194	10,652	5,239	15,891	4.8
19712/	N.A.	N.A.	N.A.	19,582	18,558	9,987	10,326	5,137	15,463	N.A.
1972	377	564	1,523	19,810	18,816	9,903	10,615	4,973	15,588	8.9
19731/	416	1,025	2,037	21,377	19,998	10,616	11,536	5,073	15,609	12.5
19732/	N.A.	N.A.	N.A.	20,506	18,740	9,888	11,166	4,935	16,101	N.A.
19741/	519	1,668	2,700	23,696	19,093	11,524	12,958	5,346	18,304	16.8
19742/	530	1,754	2,817	26,088	21,856	12,012	13,602	6,457	20,059	16.8
1975	632	1,158	2,377	28,220	24,265	13,773	14,878	7,193	22,071	12.1
1976	660	1,601	2,983	32,010	27,284	15,659	17,203	7,625	24,828	13.2
19771/	725	1,502	3,050	34,450	29,545	17,131	18,321	8,551	26,872	12,2
19772/	793	1,566	3,229	37,047	31,866	18,590	19,704	9,254	28,958	12.0
19781/	877	1,771	3,538	40,810	34,420	20,226	21,181	10,082	31,263	12.5
19782/	859	1,739	3,465	40,118	33,563	19,644	20,794	9,900	30,694	12.5
1979	975	2,746	4,642	45,304	37,069	22,349	23,206	11,028	34,234	16.0
19801/	1,089	1,957	4,032	50,040	41,403	25,739	25,889	11,850	37,739	11.8
19802/	1,050	1,731	3,721	44,866	39,534	24,391	23,873	10,365	34,238	11.6
19803/	1,057E	1,743E	3,769	45,894	40,361	24,800	24,396	10,585	34,981	11.5
19811/	1,161	1,947	4,200	50,706	44,942	27,747	26,452	11,633	38,085	11.7
19812/	1,126	1,984	4,251	50,912	45,122	27,881	26,558	11,705	38,263	11.7
1982	1,104	355	2,735	52,915	48,235	29,711	26,705	13,149	39,854	5.5
19831/	1,139	1,197	3,842	56,126	51,692	32,208	27,509	13,946	41,455	8.5
19832/	1,137	1,191	3,798	54,821	50,957	31,826	27,219	13,565	40,784	8.5
1984	1,217	1,798	4,596	58,520	53,882	34,563	28,160	13,802	41,962	10.7
19851/	1,242	1,649	4,756	62,613	60,485	38,881	29,780	15,262	45,042	9.7
19852/	1,240	1,640	4,739	62,505	60,341	38,835	29,694	15,262	44,956	9.7
19861/	1,361	1,932	5,322	69,132	64,902	42,339	31,254	18,920	50,174	10.5
19862/4/	1,356	1,924	5,313	69,082	64,902	42,339	31,221	18,906	50,127	10.5
19871/	1,478	3,511	7,338	76,791	70,856	45,898	35,102	20,152	55,254	14.2
19872/	1,687	3,833	8,112	85,279	78,495	50,634	39,217	22,417	61,634	14.1

See Page 62 for footnotes
Net Cash Flow=Retained Earnings plus Depreciation

TABLE XXXIA

PRODUCERS PRICE INDEXES
FOR COMMODITY GROUPINGS AND INDIVIDUAL ITEMS
WOOD PULP, PAPER, PAPERBOARD AND CONVERTED PRODUCTS

1980 - 1987

(Index 1982 = 100)

	1982 BLS Price Codes	1980	1981	1982	1983	1984	1985	1986	1987
PULP, PAPER & ALLIED PRODUCTS	09	86.3	94.8	100.0	103.3	110.3	113.3	116.1	121.8
PULP, PAPER & PRODUCTS, exc.									
Building Paper & Board	091	91.7	99.1	100.0	99.3	107.3	106.9	107.6	114.3
Wood Pulp Sub-Group	0911	100.3	104.8	100.0	91.5	104.8	91.4	94.7	111.5
Paper Making Wood Pulp	091102	103.6	107.2	100.0	89.8	106.3	88.2	95.6	120.6
Sulphate, Bleached	09110211	101.0	105.5	100.0	88.7	111.0	89.8	98.1	124.3
Bleached Sulphate Hardwood Pulp	09110212	116.3	N.A.	100.0	N.A.	111.6	93.3	97.0	115.0
Other	09110223	N.A.	N.A.	N.A.	N.A.	N.A.	110.6	110.0	116.3
Dissolving Wood Pulp	091103	90.4	97.5	100.0	96.1	97.5	96.7	96.2	98.6
Waste Paper Sub-Group	0912	172.2	145.0	100.0	N.A.	198.2	122.9	142.6	181.4
News	091201	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	191.3	243.9
Mixed	091202	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	129.0	153.1
Old Corrugated Boxes	091203	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	238.1	313.3
High Grade (Pulp.substit. & deink.)	091207	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	109.6
Exports	091208	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	125.9
Paper Sub-Group	0913	89.7	97.7	100.0	98.5	105.8	106.0	107.0	111.5
Paper, except Newsprint	091301	89.6	97.4	100.0	99.5	108.2	107.4	107.9	110.6
Printing Paper, Ctd. 2 Sides, Other Grades	09130116	N.A.	N.A.	100.0	101.1	112.3	118.0	116.4	117.4
Printing Paper, Ctd. 1 Side	09130117	N.A.	N.A.	100.0	101.6	108.2	110.3	111.2	116.1
Book Paper, Uncoated Offset	09130122	87.1	97.1	100.0	98.7	105.7	100.5	101.7	105.3
Wood Bond, Unwatermarked	09130131	90.6	98.0	100.0	100.3	103.8	101.9	102.1	103.6
Form Bond, 15 lb.	09130134	93.9	102.1	100.0	97.7	108.0	94.0	93.8	102.4
Other Form Bond	09130135	N.A.	N.A.	100.0	97.8	106.6	93.2	96.0	104.3
Other Bond, Exc. Form	09130136	N.A.	N.A.	100.0	100.0	107.7	106.2	107.9	111.2
Other Chemical Wood pulp	09130137	N.A.	N.A.	100.0	99.2	112.2	100.9	103.9	110.6
25% Cotton Fiber	09130141	88.0	95.0	100.0	101.7	112.4	113.8	117.0	127.1
Thin Paper	09130142	N.A.	N.A.	100.0	100.5	105.7	108.3	111.9	117.5
Cover & Text	09130148	N.A.	N.A.	100.0	102.1	111.0	112.0	115.5	122.6
Uncoated Body Stock	09130149	N.A.	N.A.	100.0	97.3	107.4	104.8	102.6	105.4
Coated Printing Paper #3	09130113	88.0	95.2	100.0	101.7	110.6	115.6	115.3	116.9
Coated Printing Paper #5	09130115	91.1	98.5	100.0	96.7	112.1	122.4	116.1	108.3
Newsprint Class	09130291	88.5	97.5	100.0	95.9	102.3	105.3	103.3	112.3
Packaging and Industrial Converting	091303	N.A.	N.A.	100.0	99.4	105.4	104.3	106.9	116.0
Wrapping Paper	09130302	N.A.	N.A.	100.0	100.8	105.9	106.6	107.0	109.2
Shipping Sack, Unbleached Kraft	09130304	93.2	102.9	100.0	105.9	112.5	102.4	102.6	118.0
Other Converting, 18 lb & Over, Unbleached Kraft	09130311	N.A.	N.A.	100.0	98.0	105.2	102.3	102.7	117.9
Other Converting, 18 lb. & Over, Exc. Unbleached Kraft	09130312	N.A.	N.A.	100.0	99.0	103.4	103.2	104.3	109.9
Grocery Sack, Unbleached Kraft	09130307	101.1	107.5	100.0	96.8	109.1	104.8	106.5	126.0
Special Industrial Paper	091304	N.A.	N.A.	100.0	98.7	105.8	103.7	105.5	108.2
Paperboard Sub-Group	0914	92.0	101.2	100.0	98.4	110.4	107.7	106.6	118.1
Corrugated Paperboard in Sheet & Rolls	09140551	N.A.	100.1	100.0	97.2	107.7	109.1	104.6	117.9
Paperboard, Exc. Corrugated	091411	N.A.	N.A.	N.A.	103.1	115.8	112.5	111.7	123.7
Unbleached Linerboard	09141101	N.A.	N.A.	N.A.	105.0	122.4	116.5	116.3	135.3
Other Unbleached Kraft Packaging & Industrial Converting Paperboard	09141102	N.A.	N.A.	N.A.	100.8	110.9	114.5	109.6	115.4
Bleached Pckg. & Indus. Conv. Paperboard	09141103	N.A.	N.A.	N.A.	100.8	107.7	108.1	106.9	107.4
Semichemical Paperboard	09141104	N.A.	N.A.	N.A.	103.8	121.3	112.7	110.0	133.2
Recycled Paperboard	09141105	N.A.	N.A.	N.A.	101.7	109.2	108.5	107.7	114.3
Converted Products Sub-Group	0915	90.2	97.9	100.0	100.4	106.4	108.9	109.4	114.7
Sanitary Paper, etc.	091501	91.9	98.2	100.0	102.1	103.4	106.6	108.1	109.0
Paper Bags, Shipping Sacks	091502	93.6	N.A.	100.0	99.0	110.5	111.9	116.9	126.0
Boxes, Shipping Containers	091503	89.4	97.7	100.0	99.5	105.7	108.8	107.8	115.4
Gummed Sealing Tape	09150431	92.1	97.5	100.0	99.0	101.9	103.6	104.2	107.9
Office Supplies	091506	88.5	95.6	100.0	101.2	107.5	106.3	106.1	108.3
Composite Cans	091507	84.9	91.4	100.0	106.5	110.7	114.7	115.1	117.1
Pressure Sensitive Products	0916	N.A.	N.A.	N.A.	101.2	105.1	107.1	108.2	109.4
Building Paper and Board Sub-Group	092	86.1	96.7	100.0	104.4	108.2	107.4	108.8	111.2
Publications, Pr. Matter & Prtg.	093	N.A.	91.4	100.0	106.3	112.7	118.7	123.3	128.1
All Commodities		89.8	98.0	100.0	101.3	103.7	103.2	100.2	102.8
Industrial Commodities		88.0	97.4	100.0	101.1	103.3	103.7	100.0	102.6

N.A. - Not Available
SOURCE: Bureau of Labor Statistics, U.S. Department of Labor, Washington, DC

TABLE XXXIB

PRODUCERS PRICE INDEXES
FOR THE NET OUTPUT OF SELECTED INDUSTRIES AND PRODUCTS
PAPER AND ALLIED PRODUCTS

1982 - 1987

	Product Codes		Index Base	1982	1983	1984	1985	1986	1987
Paper and Allied Products	26		12/84	N.A.	N.A.	100.0	98.8	99.5	104.8
Pulp Mills	2611		12/82	100.0	98.8	112.0	100.9	103.1	117.0
Primary products		2611-P	12/82	100.0	100.2	114.1	99.8	103.9	122.0
Special Alpha and Dissolving Woodpulp		2611-1	12/82	100.0	99.1	100.6	99.8	99.2	101.6
Other Pulp, Including Pulpmill Byproducts, Except Tall Oil		2611-2	12/82	100.0	100.8	120.9	99.3	106.2	132.2
Woodpulp		2611-21	12/82	100.0	100.6	120.4	97.9	105.4	133.3
Bleached Sulfate Woodpulp, Softwood		2611-21331	12/82	100.0	98.2	120.0	97.1	106.0	134.4
Bleached Sulfate Woodpulp, Hardwood		2611-21335	12/82	100.0	N.A.	125.3	104.8	109.0	129.2
Paper Mill Products Except Building Paper	2621		6/81	103.0	102.6	110.0	109.5	110.4	115.7
Primary Products		2621-P	6/81	103.0	102.5	110.3	109.9	110.9	116.1
Tissue Paper Stock and Other Machine Creped Paper Stock		2621-A	6/81	105.2	105.9	110.4	112.4	115.2	119.0
Sanitary Paper Stock		2621-A1	6/81	105.2	105.8	110.4	112.1	114.4	117.8
Newsprint		**2621-1**	**6/81**	**104.6**	**100.3**	**107.0**	**110.1**	**108.0**	**117.4**
Groundwood Paper, Uncoated		**2621-2**	**6/81**	**104.9**	**101.7**	**106.9**	**108.3**	**108.7**	**113.0**
Publication and Printing		2621-211	6/81	104.7	100.7	106.2	107.8	108.1	112.7
Clay Coated Printing and Converting Paper		**2621-3**	**6/81**	**104.8**	**105.5**	**117.1**	**123.6**	**121.3**	**121.0**
Coated Two Sides, Except Prime-Coated Body Stock for Further Coating		2621-331	6/81	103.8	104.2	116.5	123.5	120.9	119.9
No. 3 Grade		2621-33111	6/81	106.0	107.8	117.2	122.6	122.7	123.9
No. 5 Grade		2621-33121	6/81	101.2	97.9	113.5	123.9	117.6	109.6
Other Grades		2621-33131	6/81	104.2	105.5	117.3	123.5	121.7	122.4
Book Paper, Uncoated Free Sheet		**2621-4**	**6/81**	**101.0**	**99.5**	**107.4**	**100.6**	**102.1**	**108.2**
Writing, Chemical Woodpulp		2621-421	6/81	99.4	97.9	106.3	98.1	99.5	105.7
Unwatermarked Bond, No. 4 Grade		2621-42111	6/81	102.3	102.6	106.2	104.3	104.5	106.0
Other Bond, Except Form Bond		2621-42133	6/81	102.0	102.0	109.9	108.3	110.1	113.4
Form Bond, 15 Pound		2621-42155	6/81	98.8	96.5	106.7	92.8	92.6	101.2
Other Form Bond		2621-42166	6/81	103.7	101.4	110.5	96.6	99.6	108.1
Other Chemical Woodpulp Writing Paper		2621-42177	6/81	94.9	94.2	106.5	95.8	98.7	105.0
Publication and Printing		2621-441	6/81	103.1	100.7	107.7	102.2	103.3	107.8
Offset		2621-44122	6/81	102.4	101.0	108.2	102.9	104.1	107.8
Other Book Printing		2621-44133	6/81	103.7	101.1	107.1	101.4	102.5	107.8
Cover Text		2621-465	6/81	105.8	108.1	117.5	118.6	122.2	129.8
Cotton Fiber Paper and Thin Paper		**2621-6**	**6/81**	**106.9**	**107.9**	**115.3**	**117.6**	**121.3**	**128.8**
Writing, Cotton Fiber Including Cotton Fiber Index		2621-611	6/81	106.4	108.2	119.6	121.1	124.5	135.3
Thin Paper		2621-671	6/81	107.2	107.7	113.3	116.1	119.9	125.9
Packaging and Industrial Converting Paper, Unbleached Kraft		**2621-7**	**6/81**	**95.6**	**95.2**	**105.0**	**100.2**	**102.1**	**118.4**
Shipping Sack		2621-731	6/81	95.4	100.9	107.3	97.7	97.9	112.6
Bag and Sack, Other Than Shipping Sack		2621-751	6/81	91.9	88.9	100.2	96.3	97.9	115.7
Other Converting, 18 Pounds and Over		2621-761	6/81	99.8	97.7	105.0	102.0	102.4	117.7
Packaging and Industrial Converting Paper, Except Unbl. Kraft		**2621-8**	**6/81**	**102.9**	**103.8**	**110.2**	**111.1**	**115.6**	**121.5**
Wrapping		2621-811	6/81	N.A.	105.8	111.1	111.9	112.3	114.6
Bag and Sack, Other Than Shipping Sack		2621-851	6/81	101.5	101.1	107.7	109.2	110.2	113.7
Other Converting, 18 Pounds and Over		2621-861	6/81	100.8	99.8	104.2	104.0	105.1	110.8
Glassine, Greaseproof, and Vegetable Parchment		2621-881	6/81	103.1	105.5	114.8	115.2	127.0	135.5
Special Industrial Paper		**2621-9**	**6/81**	**104.2**	**102.9**	**110.3**	**108.1**	**109.9**	**112.8**
Paperboard Mills	2631		12/82	100.0	103.0	116.3	112.0	113.1	126.5
Primary Products		2631-P	12/82	100.0	102.9	115.2	112.2	111.3	123.1
Unbleached Kraft Packaging and Industrial Converting Paperboard		**2631-1**	**12/82**	**100.0**	**104.5**	**121.2**	**116.3**	**115.6**	**133.4**
Unbleached Linerboard		2631-111	12/82	100.0	105.8	122.4	116.5	116.3	135.2
42 Pound Kraft Linerboard		2631-11101	12/82	100.0	105.0	122.6	119.9	117.9	138.3
Other Unbleached Linerboard		2631-11102	12/82	100.0	105.0	122.2	114.6	115.4	133.5
Bleached Packaging and Industrial Converting Paperboard		**2631-2**	**12/82**	**100.0**	**100.8**	**107.7**	**108.1**	**106.9**	**107.4**
Linerboard		2631-211	12/82	100.0	100.2	117.4	111.4	111.7	118.8
Folding Carton-Type Board		2631-241	12/82	100.0	100.3	107.5	105.9	104.1	105.5
Other Solid Bleached Board		2631-284	12/82	100.0	99.6	113.1	113.5	113.6	119.6
Corrugating Medium (Semi-Chemical)		**2631-321**	**12/82**	**100.0**	**103.8**	**121.4**	**112.7**	**110.0**	**133.2**
Recycled Paperboard		**2631-4**	**12/82**	**100.0**	**101.7**	**109.2**	**108.5**	**107.7**	**114.3**
Linerboard (Less Than 80% Virgin Fiber)		2631-411	12/82	100.0	100.9	117.4	110.6	107.1	125.6
Corrugating Medium (Less Than 75% Virgin Fiber)		2631-421	12/82	100.0	105.2	126.2	121.8	119.4	136.8
Container Chip and Filler Board		2631-431	12/82	100.0	104.4	113.3	108.9	108.7	117.8
Folding Carton: Unlined Chipboard		2631-443	12/82	100.0	101.6	111.7	N.A.	110.7	111.5
Folding Carton: White Lined		2631-445	12/82	100.0	N.A.	N.A.	107.9	106.7	106.7
Folding Carton: Clay-Coated		2631-446	12/82	100.0	99.3	99.3	98.6	98.1	99.4
Tube, Can and Drum Paperboard		2631-481	12/82	100.0	103.4	111.9	112.8	112.9	116.6
Other Recycled Paperboard		2631-487	12/82	100.0	101.3	104.7	105.5	106.2	112.4
Secondary Products		2631-S	12/82	100.0	103.2	122.0	111.1	121.7	141.9
Converted Paper and Paperboard Products, Except Containers & Boxes	264		12/84	N.A.	N.A.	100.0	100.3	101.8	104.9
Paperboard Containers and Boxes	265		12/84	N.A.	N.A.	100.0	98.4	97.3	104.2

SOURCE: Annual Supplement to Producer Prices and Price Indexes, Table 3, Bureau of Labor Statistics, U.S. Department of Labor, Washington, D.C. N.A. - Not Available

TABLE XXXII

GENERAL STATISTICS FOR THE PAPER AND ALLIED PRODUCTS INDUSTRY

1986

CODE	INDUSTRY GROUP & INDUSTRY	All Employees		Production Workers			Value Added by Manufacture	Cost of Materials	Value of Industry Shipments	Capital Expenditures	End-of-Year Inventories
		Number (000)	Payroll ($ Mil.)	Number (000)	Man-Hours (Mil.)	Wages ($ Mil.)	($ Mil.)	($ Mil.)	($ Mil.)	($ Mil.)	($ Mil.)
26	**PAPER AND ALLIED PRODUCTS**	**602.6**	**16,112.8**	**458.4**	**952.7**	**11,296.9**	**43,924.5**	**53,943.5**	**97,853.2**	**6,084.4**	**10,238.4**
2611	**Pulp Mills**	15.3	593.7	11.8	25.6	446.7	1,590.8	2,212.7	3,837.3	874.6	437.6
2621	**Paper Mills, exc. Bldg. Paper**	128.8	4,405.0	99.4	210.1	3,283.3	12,032.9	13,640.9	25,705.9	2,153.3	2,512.7
2631	**Paperboard Mills**	51.0	1,713.9	39.2	85.3	1,281.5	4,947.2	6,133.3	11,160.3	999.6	758.8
264	**Misc.Converted Paper Products**	215.3	4,993.1	162.0	331.4	3,336.1	16,176.0	17,636.2	33,692.9	1,247.1	3,858.4
2641	Paper Coating and Glazing	43.4	1,148.5	29.9	63.4	679.5	3,503.0	4,189.5	7,679.7	291.7	961.9
2642	Envelopes	25.2	545.4	19.2	40.3	370.7	1,048.1	1,292.3	2,336.7	72.8	272.1
2643	Bags, except Textile Bags	49.9	1,047.4	39.3	81.6	728.6	2,818.9	3,510.4	6,305.1	269.1	783.3
2645	Die-Cut Paper and Board	17.9	328.0	14.0	26.7	218.2	788.4	1,011.6	1,794.8	31.0	235.9
2646	Pressed and Molded Pulp Goods	2.9	67.1	2.3	5.0	53.6	169.7	105.4	269.0	11.8	37.4
2647	Sanitary Paper Products	37.8	1,123.3	29.4	60.8	834.8	5,913.2	5,256.3	11,153.2	466.0	701.7
2648	Stationery Products	12.7	229.4	9.5	17.5	142.9	515.8	711.1	1,200.8	43.5	277.6
2649	Converted Paper Products, NEC	25.5	504.0	18.4	36.2	307.8	1,418.9	1,559.6	2,953.5	61.2	588.5
265	**Paperboard Containers and Boxes**	189.8	4,345.8	144.1	296.4	2,901.6	9,042.4	14,144.3	23,145.5	799.4	2,636.1
2651	Folding Paperboard Boxes	44.2	1,036.2	35.2	73.5	738.0	2,092.3	2,555.9	4,622.4	147.0	727.1
2652	Set-Up Paperboard Boxes	9.1	127.5	7.4	15.4	90.9	267.8	280.0	552.0	13.2	63.2
2653	Corrugated, Solid Fiber Boxes	99.2	2,366.9	71.9	146.4	1,480.0	4,737.8	8,754.1	13,465.6	433.5	1,221.4
2654	Sanitary Food Containers	24.7	540.1	19.4	40.4	390.1	1,350.3	1,576.8	2,934.2	142.6	466.2
2655	Fiber Cans,Drums,Similar Prod.	12.6	275.1	10.2	20.8	202.6	594.2	977.5	1,571.3	63.1	158.2
2661	**Building Paper and Board Mills**	2.4	61.3	1.9	4.0	45.7	135.2	176.1	311.2	10.4	34.8

1985

CODE	INDUSTRY GROUP & INDUSTRY	All Employees		Production Workers			Value Added by Manufacture	Cost of Materials	Value of Industry Shipments	Capital Expenditures	End-of-Year Inventories
		Number (000)	Payroll ($ Mil.)	Number (000)	Man-Hours (Mil.)	Wages ($ Mil.)	($ Mil.)	($ Mil.)	($ Mil.)	($ Mil.)	($ Mil.)
26	**PAPER AND ALLIED PRODUCTS**	**603.9**	**15,346.0**	**461.9**	**943.3**	**10,779.5**	**40,422.3**	**53,014.8**	**93,392.9**	**6,272.7**	**9,894.1**
2611	**Pulp Mills**	16.3	555.4	12.4	25.5	413.0	1,133.1	2,095.0	3,228.0	745.0	453.1
2621	**Paper Mills, exc. Bldg. Paper**	131.8	4,259.4	101.5	212.0	3,181.8	11,074.4	13,929.7	24,980.1	2,484.3	2,512.8
2631	**Paperboard Mills**	53.9	1,668.4	41.1	86.5	1,241.3	4,299.6	6,171.7	10,494.0	1,043.4	815.3
264	**Misc.Converted Paper Products**	210.9	4,668.8	161.3	326.3	3,148.1	14,880.1	16,722.7	31,545.0	1,218.5	3,590.5
2641	Paper Coating and Glazing	41.9	1,059.7	29.2	61.7	626.8	3,008.3	3,894.5	6,893.4	288.6	890.4
2642	Envelopes	24.0	503.4	18.6	39.0	343.4	991.6	1,164.3	2,147.4	74.1	251.0
2643	Bags, except Textile Bags	48.4	973.1	38.6	78.2	683.1	2,485.4	3,282.9	5,784.9	214.8	721.2
2645	Die-Cut Paper and Board	16.9	302.2	13.6	25.8	204.6	677.9	1,052.9	1,730.3	35.0	232.7
2646	Pressed and Molded Pulp Goods	2.9	62.6	2.3	4.7	49.2	151.6	102.7	257.5	9.2	30.8
2647	Sanitary Paper Products	38.0	1,045.7	30.0	61.1	785.7	5,630.3	5,132.2	10,751.3	486.7	683.1
2648	Stationery Products	12.4	228.3	9.7	18.4	151.5	491.0	620.7	1,101.5	48.9	242.9
2649	Converted Paper Products, NEC	26.4	493.8	19.3	37.3	303.8	1,444.1	1,472.5	2,878.7	61.2	538.4
265	**Paperboard Containers and Boxes**	187.5	4,106.2	142.8	286.8	2,726.2	8,827.9	13,855.4	22,697.1	763.7	2,477.5
2651	Folding Paperboard Boxes	43.5	969.9	34.6	70.5	689.5	1,960.4	2,460.5	4,413.8	153.6	687.7
2652	Set-Up Paperboard Boxes	9.2	126.8	7.7	15.1	86.3	244.0	230.4	479.0	16.8	61.9
2653	Corrugated, Solid Fiber Boxes	97.9	2,231.8	71.1	142.3	1,390.2	4,565.1	8,501.0	13,092.9	420.3	1,117.1
2654	Sanitary Food Containers	23.4	492.9	18.4	37.2	351.4	1,424.9	1,603.3	3,014.7	112.5	449.7
2655	Fiber Cans,Drums,Similar Prod.	13.5	284.8	11.0	21.8	208.8	633.5	1,060.2	1,696.7	60.5	161.1
2661	**Building Paper and Board Mills**	3.5	87.8	2.8	6.1	69.1	207.2	240.3	448.8	17.8	44.9

SOURCE: 1986 Survey of Manufactures

SECTION V

SUPPLEMENT

Tables XXXIII and XXXIV present data on production, imports, exports and new supply of wet machine board and total construction paper and board, for the years 1947 through 1987. The production data for 1982-1987 are API estimates; all the other data are drawn from Bureau of the Census reports. The production estimates for 1985 and 1986 have been revised downward to reflect information collected as part of the API's Capacity Survey.

These data are included in the production and new supply totals shown in Tables I and X. API does not collect data on these grades.

Table XXXV presents the data on imports used in computing the new supply total presented in Table X that were taken from sources other than Bureau of the Census. The Printing-Writing Paper Division of the API has expanded its estimates of imports and exports to include thin papers, bleached bristols and cotton fiber papers. The import and export data that they compiled for the period 1978 through 1987 are presented in these tables. In some instances, these data are the same as the Census data. The bleached bristol figures for imports include coated bleached bristols, which are included as products in the Census data of Table XIII.

Table XXXVI presents similar data on exports. The Census data are presented in Table XIV.

This section also includes the index to this report.

TABLE XXXIII

WET MACHINE BOARD PRODUCTION, IMPORTS, EXPORTS AND CONSUMPTION

CENSUS DATA

1947 - 1987

(In Tons of 2,000 Pounds)

YEAR	Production	Imports	Exports	New Supply
1947	149,800	-	-	150,000
1948	142,134	-	-	142,000
1949	129,761	1,240	2,615	128,386
1950	164,611	2,136	3,266	163,481
1951	150,559	3,144	3,876	149,827
1952	140,175	2,242	3,318	139,099
1953	156,496	2,872	3,698	155,670
1954	135,910	3,349	3,420	135,839
1955	178,687	4,211	3,727	179,171
1956	146,589	3,492	3,998	146,083
1957	137,998	3,289	4,188	137,099
1958	121,103	4,566	3,884	121,785
1959	144,807	5,214	3,566	146,455
1960	174,992	4,517	2,791	176,718
1961	155,205	3,668	3,516	155,357
1962	145,625	4,905	5,312	145,218
1963	140,669	2,925	4,412	139,182
1964	147,880	10,403	4,884	153,399
1965	143,872	10,306	4,139	150,039
1966	148,098	5,537	4,811	148,824
1967	143,984	8,636	5,218	147,402
1968	154,794	11,146	4,318	161,622
1969	147,671	9,073	3,842	152,902
1970	139,055	9,308	4,614	143,749
1971	137,825	6,198	4,383	139,640
1972	147,914	4,204	5,642	146,476
1973	148,892	6,883	7,495	148,280
1974	143,862	5,899	11,287	138,474
1975	115,169	3,814	6,136	112,847
1976	129,955	6,988	6,617	130,326
1977	128,627	3,608	8,051	124,184
1978	136,337	2,614	7,554	131,397
1979	144,059	2,345	7,371	139,033
1980	137,649	2,118	8,017	131,750
1981	160,293	1,684	10,812	151,165
1982	129,000E	1,842	11,089	120,000E
1983	140,000E	3,584	11,624	132,000E
1984	140,000E	2,826	13,782	129,000E
1985	130,000E	3,270	13,380	120,000E
1986	130,000E	3,235	18,893	114,000E
1987	130,000E	3,463	17,328	116,000E

SOURCE: Production - Department of Commerce, Bureau of the Census, Industry Division.
Current Industrial Reports: Pulp, Paper and Board, Annual Issues
Imports and Exports: Foreign Trade Division, Department of Commerce
E - Estimated by American Paper Institute

TABLE XXXIV

CONSTRUCTION PAPER AND BOARD PRODUCTION, IMPORTS, EXPORTS AND CONSUMPTION

CENSUS DATA

1947 - 1987

(In Tons of 2,000 Pounds)

YEAR	Production	Imports	Exports	New Supply
1947	2,047,763	32,923	35,406	2,045,280
1948	2,227,217	30,695	23,277	2,234,635
1949	1,773,573	22,541	28,090	1,768,024
1950	2,263,617	30,677	24,019	2,270,275
1951	2,303,538	29,057	30,223	2,302,372
1952	2,197,763	27,545	24,343	2,200,965
1953	2,322,275	26,177	25,871	2,322,581
1954	2,436,002	21,228	28,355	2,428,875
1955	2,698,344	28,944	30,580	2,696,708
1956	2,530,407	29,429	33,650	2,526,186
1957	2,317,701	19,040	31,800	2,304,941
1958	2,446,375	23,073	25,613	2,443,825
1959	2,605,831	27,698	28,250	2,606,279
1960	2,507,763	18,090	28,137	2,497,716
1961	2,474,304	11,168	31,430	2,454,042
1962	2,508,987	16,076	27,187	2,497,876
1963	2,591,639	28,851	26,304	2,594,186
1964	2,747,582	44,359	28,539	2,763,402
1965	2,822,203	29,471	29,463	2,822,211
1966	2,649,808	25,945	33,720	2,642,033
1967	2,679,098	26,591	26,539	2,679,150
1968	2,906,986	38,856	33,957	2,911,885
1969	2,955,112	39,362	42,837	2,951,637
1970	2,812,345	48,875	32,843	2,828,377
1971	3,282,908	81,262	37,673	3,326,497
1972	3,444,014	104,385	44,335	3,504,064
1973	3,404,880	105,558	54,385	3,456,053
1974	3,140,084	88,701	66,242	3,162,543
1975	2,864,353	84,363	59,575	2,889,141
1976	3,205,761	93,155	62,206	3,238,710
1977	3,255,141	135,274	50,270	3,340,145
1978	3,339,792	329,594	63,850	3,605,536
1979	3,130,601	382,883	54,642	3,458,842
1980	2,420,112	473,679	57,662	2,836,129
1981	1,989,203	396,496	68,832	2,316,867
1982	1,533,000E	419,515	47,833	1,905,000E
1983	1,660,000E	473,667	55,746	2,078,000E
1984	1,660,000E	496,830	63,890	2,093,000E
1985	1,570,000	413,196	55,429	1,928,000E
1986	1,470,000	336,409	75,149	1,731,080
1987	1,470,000	305,985	90,024	1,686,000

SOURCE: Production - Department of Commerce, Bureau of the Census, Industry Division.
Current Industrial Reports: Pulp, Paper and Board, Annual Issues
Imports and Exports: Foreign Trade Division, Department of Commerce

NOTE: Excludes Hard Pressed Board
E - Estimated by American Paper Institute

TABLE XXXV

IMPORTS

1959 - 1987
(000 Tons)

YEAR	Newsprint	Uncoated Groundwood Paper	Coated Papers	Uncoated Free Sheet Papers	Thin Papers	Bleached Bristols	Total Printing/ Writing
1959	5,274	41.5	0	0.2	2	0.3	44.0
1960	5,426	39.5	0	1.8	3	0.5	44.8
1961	5,382	35.9	0	3.4	3	0.5	42.8
1962	5,415	41.5	0	3.8	3	0.4	48.7
1963	5,398	44.2	0	5.3	3	0.5	53.0
1964	5,908	70.6	0	11.2	7	0.5	89.3
1965	6,349	98.1	0.9	10.7	9	0.4	119.1
1966	6,884	132.9	0.9	14.2	11	0.3	159.3
1967	6,546	147.5	1.4	34.7	13	0.5	197.1
1968	6,391	136.8	1.3	13.4	12	0.3	163.8
1969	6,724	216.9	3.3	15.4	10	0.4	246.0
1970	6,477	232.9	3.5	48.9	8	0.4	293.7
1971	6,463	244.2	4.7	108.5	7	0.5	364.9
1972	6,758	225.1	4.5	93.3	6	0.5	329.4
1973	7,236	237.1	12.3	120.2	15	1.0	385.6
1974	7,452	321.3	16.3	138.9	18	3.5	498.0
1975	5,522	264.0	4.7	86.9	9	0.7	374.3
1976	6,308	338.1	15.5	133.9	12	0.6	500.1
1977	6,339	443.2	111.6	155.3	13	17.0#	740.1
1978	7,102	610.7	213.7	112.7	7.3	15.9	959.7
1979	7,168	694.5	188.7	141.7	14.9	16.2	1,053.8
1980	6,880	688.1	114.8	119.0	6.3	14.2	941.3
1981	6,725	650.0	39.0	119.5	12.0	7.9	827.5
1982	6,214	652.8	69.1	157.0	11.3	14.6	904.4
1983	6,725	920.4	162.4	222.8	20.3	19.7	1,345.1
1984	7,489	1,298.1	428.4	459.0	46.4	24.1	2,255.3
1985	7,724	1,386.9	496.2	379.3	23.7	22.5	2,308.6
1986	7,756	1,527.3	501.2	476.2	45.4	28.3	2,578.4
1987	8,204	1,737.2	674.4	433.0	47.6	28.0	2,920.2

SOURCE: Newsprint - Canadian Shipments to U.S., CPPA; Other Country Imports to U.S., U.S. Bureau of Census
Uncoated Groundwood - Imports from Canada, CPPA
Imports from other countries, Bureau of the Census, adjusted by Printing/Writing Division of API
Uncoated Free Sheet Papers - Bureau of the Census, adjusted by Printing/Writing Division of API
Coated Papers - Bureau of the Census

NOTE: Imports used to compute new supply for Table X.

 # Series revised to include cut size paper.

TABLE XXXVI

EXPORTS

1959 - 1987
(000 Tons)

YEAR	Uncoated Groundwood Papers	Coated Papers	Uncoated Free Sheet Papers	Thin Papers*	Cotton Fiber Papers	Bleached Bristols	Total Printing/ Writing	Unbleached Kraft Paperboard	Semichem. Paperboard	Bleached Paperboard	Recycled Paperboard
1959	4.6	25.6	44.8		13	0	88.8	329.0	21.0	17.0	40.0
1960	8.6	26.1	38.2		15	0.8	89.0	381.0	31.0	23.0	46.0
1961	10.2	21.7	34.6		15	0.9	82.5	407.0	62.0	32.0	60.0
1962	9.1	24.3	31.3		15	1.3	80.6	445.0	44.0	33.0	55.0
1963	11.1	27.1	30.1		14	1.7	83.8	517.0	83.0	39.0	53.0
1964	13.1	36.6	34.4		16	1.9	102.3	765.0	107.0	45.0	71.0
1965	3.2	48.5	29.0		29	0	110.0	905.0	55.0	47.0	32.0
1966	3.8	49.6	30.6		32	0	115.6	1,016.0	64.0	59.0	27.0
1967	4.4	46.8	27.3		31	0	109.3	1,174.0	76.0	61.0	23.0
1968	7.9	57.1	31.9		47	0	144.0	1,380.7	94.0	108.5	12.8
1969	6.1	70.0	35.3		56	0	167.4	1,682.8	52.4	108.1	16.8
1970	7.3	75.2	41.3		58	0	181.8	1,683.4	84.3	114.4	17.3
1971	9.9	72.2	46.2		74	0	202.3	1,834.3	104.0	156.5	20.6
1972	17.6	76.2	50.6		68	0	212.4	1,887.5	111.7	217.8	14.4
1973	29.7	80.6	64.9		87	0	262.2	1,596.7	107.4	280.3	30.8
1974	53.3	98.8	100.4		106	0	358.5	1,582.7	145.5	320.2	101.0
1975	74.7	122.8	119.8		80	0	397.3	1,058.0	115.4	256.2	23.9
1976	70.6	106.7	147.3		102	0	426.6	1,247.3	119.3	306.1	36.5
1977	54.1	98.9	111.4		76	0	340.4	1,289.6	121.9	389.4	29.6
1978	58.1	73.7	84.9	26.5	12.2	10.7	266.4	1,466.3	119.2	432.9	21.6
1979	80.4	73.5	68.1	32.4	10.9	9.2	274.2	1,645.3	98.2	496.7	21.8
1980	101.0	92.8	88.3	33.8	16.6	8.8	341.3	2,379.8	322.3	549.4	82.6
1981	119.7	88.6	116.7	42.7	9.2	6.4	383.3	1,886.6	155.2	556.6	23.8
1982	55.9	81.4	70.6	27.7	6.6	4.4	246.6	1,931.4	184.9	524.7	12.7
1983	37.5	79.2	59.3	17.6	4.8	3.7	202.1	2,280.7	192.6	514.5	24.3
1984	30.2	85.6	65.5	14.0	5.0	3.0	203.3	2,086.4	149.2	478.3	17.4
1985	36.7	82.5	64.4	13.3	4.3	1.4	202.6	1,830.0	189.4	465.6	26.3
1986	40.9	78.0	50.0	14.5	4.5	2.4	190.3	2,245.5R	212.5R	568.7R	70.2R
1987	55.7	100.7	67.9	18.4	4.1	1.9	248.7	2,318.0	189.2	618.9	75.3

SOURCE: Paper Grades - Bureau of the Census; Printing/Writing Paper Division compilation
Paperboard Grades - 1959-1967 - Bureau of the Census
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NOTE: Exports used to compute new supply for Table X. R - Revised

* - 1959-1977 included in Cotton Fiber

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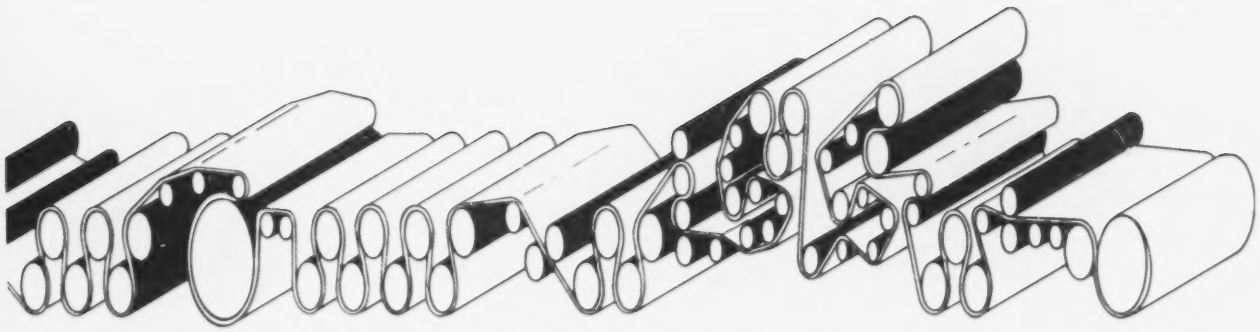

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F O R E W O R D

We are pleased to present the twenty-seventh edition of the American Paper Institute's **Statistics of Paper, Paperboard and Wood Pulp.**

The Statistics of Paper, Paperboard and Wood Pulp is designed to present an up-to-date comprehensive statistical compendium of annual data on the paper, paperboard and wood pulp industries, together with selected data on the entire paper and allied products industry group.

In addition to data on production, imports, exports, consumption, finances, price indexes, employment and wage rates, this report compares paper and paperboard new supply by major grades with total economic trends as measured by the inflation-adjusted gross national product (real GNP).

The tables are grouped into four functional groupings: production and related data; regional data; input data and financial data. There is also a supplement showing Bureau of Census data on construction paper, insulation board and wet machine board, together with the import and export data used to calculate the paper and paperboard new supply data of Table VIII.

The Forest Service division of the Department of Agriculture recently reported data on the status of commercial forest land in the United States for 1987, updating their 1977 report. A summary of the data is shown in Table XXVII.

The tabular data are supplemented by various graphs highlighting the growth of the industry and the major long term changes in the structure of production, imports, exports, energy use, fibrous material consumption and productivity of the paper, paperboard and wood pulp industries.

We welcome any comments or suggestions you may have and hope that you will find this report useful.

Richard E. Storat
Vice-President
Economic and Financial Services

August 1989

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SECTION I

PRODUCTION AND RELATED DATA

Highlights of 1988

For the third consecutive year, the United States paper industry reached new highs in virtually every sector of operations. 1988 paper and paperboard production totaled 76,403,000 tons, 2.8% above its 1987 high, while new supply (production plus imports less exports) rose 2.4%, to 83,632,000 tons.

Although production and new supply were at record-high levels in 1988, they both followed flat trends throughout the year and, indeed, through the first two quarters of 1989 as well. Total economic activity, as measured by the inflation-adjusted gross national product (real GNP), followed a rising trend, advancing 3.9% above its 1987 level. The slower growth in new supply of paper and paperboard relative to that of real GNP suggests that paper and paperboard consumers were adjusting inventories, following two years during which industry new supply grew faster than real GNP.

Exports of paper, paperboard and products increased by 362,000 tons to a record 5,559,000 tons in 1988. This strong growth during a year of strong domestic demand points to the increased interest of U.S. producers in global markets. Imports grew by a lesser 260,000 tons, to 12,788,000 tons and, consequently, industry production advanced more rapidly than new supply of paper, paperboard and products in 1988.

The graphs included in this section show how well paper and paperboard production and new supply have kept pace with total economic activity. They also depict some long-term changes of industry grade structure, showing the increasing importance of the printing-writing grades of paper and the unbleached kraft grades of paperboard over the past two decades. Changes in the sources of newsprint for total U. S. newsprint consumption from 1961 to 1988, as well as shifts in import and export patterns of paper, paperboard and wood pulp, are also charted.

TABLES

The tables in this section present detailed data on production, imports, exports, new supply, capacity and value of shipments of paper and paperboard, together with analyses of demand for these products relative to real GNP. A table on wood pulp capacity is also included.

API's Kraft Paper Division shifted about 200,000 tons of reported 1974-1988 production of kraft papers to the Specialty Packaging and Special Industrial grades as result of a re-evaluation of these products. Other small revisions in the back data reflect the annual re-surveys by the API Divisions.

TABLE 1

PAPER AND BOARD

(Includes Wet Machine Board and Construction Grades)

PRODUCTION, IMPORTS, EXPORTS AND NEW SUPPLY

1899 - 1988

YEAR	Production	Imports (Inc. Products)	Exports (Inc. Products)	New Supply*	Population Millions	Per Capita New Supply --lbs.--	Real Gross National Product $Bil.1982 Prices	Ratio of New Supply to Real GNP 000Tons/Bil.$
	(Thousand Tons)							
1899	2,168	-	-	2,168	74.9	57.9	-	-
1919	5,966	708	421	6,253	105.1	119.0	-	-
1929	11,140	2,534	262	13,412	121.8	220.2	709.6	18.9
1934	9,187	2,265	163	11,289	126.5	178.5	536.7	21.0
1939	13,510	2,687	249	15,948	131.0	243.5	716.6	22.3
1944	17,183	2,576	314	19,445	138.9	280.0	1,330.6	14.6
1947	20,800	4,121	460	24,461	144.7	338.1	1,066.7	22.9
1948	21,532	4,582	377	25,737	147.2	349.7	1,108.7	23.2
1949	20,098	4,752	367	24,483	149.7	327.1	1,109.0	22.1
1950	23,992	5,006	364	28,634	152.2	376.3	1,203.7	23.8
1951	25,699	5,143	631	30,211	154.8	390.3	1,328.2	22.8
1952	24,008	5,190	584	28,614	157.5	363.4	1,380.0	20.7
1953	26,182	5,229	471	30,940	160.1	386.5	1,435.3	21.6
1954	26,411	5,165	682	30,894	163.0	379.1	1,416.2	21.8
1955	29,649	5,346	839	34,156	165.9	411.8	1,494.9	22.9
1956	30,901	5,780	775	35,906	168.9	425.2	1,525.6	23.5
1957	30,097	5,410	863	34,644	171.9	403.1	1,551.1	22.3
1958	30,214	5,092	847	34,459	174.8	394.3	1,539.2	22.4
1959	33,748	5,517	906	38,359	177.8	431.4	1,629.1	23.6
1960	33,904	5,633	1,020	38,517	180.7	426.3	1,665.3	23.1
1961	35,178	5,678	1,210	39,646	183.7	431.6	1,708.7	23.2
1962	37,062	5,740	1,187	41,615	186.5	446.3	1,799.4	23.1
1963	38,647	5,669	1,333	42,983	189.2	454.4	1,873.3	23.0
1964	40,962	6,209	1,694	45,477	191.9	474.0	1,973.3	23.1
1965	43,455	6,585	1,770	48,270	194.3	496.9	2,087.6	23.1
1966	46,702	7,358	1,942	52,118	196.6	530.2	2,208.3	23.6
1967	46,568	6,952	2,085	51,435	198.7	517.7	2,271.4	22.6
1968	50,134	6,842	2,625	54,351	200.7	541.6	2,365.6	23.0
1969	52,914	7,258	2,749	57,423	202.7	566.6	2,423.3	23.7
1970	51,670	7,115	2,817	55,968	205.1	545.8	2,416.7	23.2
1971	53,162	7,406	3,118	57,450	207.7	553.2	2,484.8	23.1
1972	57,433	7,676	3,069	62,040	209.9	591.1	2,608.5	23.8
1973	59,900	8,131	3,027	65,004	211.9	613.5	2,744.1	23.7
1974	59,040	8,065	3,797	63,308	213.9	591.9	2,729.3	23.2
1975	50,976	6,253	3,116	54,113	216.0	501.0	2,695.0	20.1
1976	58,329	7,142	3,456	62,015	218.0	568.9	2,826.7	21.9
1977	60,040	7,432	3,230	64,242	220.2	583.4	2,958.6	21.7
1978	62,047	9,113	3,373	67,787	222.6	609.0	3,115.2	21.8
1979	64,345	9,123	3,672	69,796	225.1	620.1	3,192.3	21.9
1980	63,600	8,780	5,214	67,166	227.8	589.7	3,187.2	21.1
1981	64,259	8,339	4,641	67,957	230.1	590.7	3,248.7	20.9
1982	60,958**	8,024	4,246	64,736	232.5	556.9	3,166.0	20.5
1983	66,761**	8,986	4,569	71,178	234.8	606.3	3,279.1	21.7
1984	70,268**	11,075	4,387	76,956	237.0	649.4	3,501.4	22.0
1985	68,658**	11,522	4,071	76,109	239.3	636.1	3,618.7	21.0
1986R	72,475**	11,936	4,687	79,724	241.6	660.0	3,717.9	21.4
1987R	75,908**	12,837	5,304	83,441	243.9	684.2	3,853.7	21.7
1988	77,993**	13,110	5,691	85,412	245.5	695.8	4,024.7	21.2

SOURCE: Production 1899-1958 - Department of Commerce, Bureau of the Census
Production 1959-1988 - American Paper Institute
Imports and Exports - Department of Commerce, Bureau of the Census
Population - Department of Commerce, Bureau of the Census
Real Gross National Product - Department of Commerce, Bureau of Economic Analysis
All calculations by American Paper Institute

NOTE: Production, Imports and Exports 1899-1944 includes Hard Pressed Board.
Population data include Armed Forces overseas.
R - Revised P - Preliminary

* New Supply = Production plus Imports less Exports; includes imports and exports of products.

** Includes API estimate for construction and wet machine board grades: 1982 - 1,662,000 tons; 1983 - 1,800,000 tons; 1984 - 1,800,000 tons; 1985 - 1,700,000 tons; 1986 - 1,600,000; 1987 and 1988 - 1,590,000 tons.

Chart 1

PAPER AND PAPERBOARD

(Including Wet Machine Board & Construction Grades)

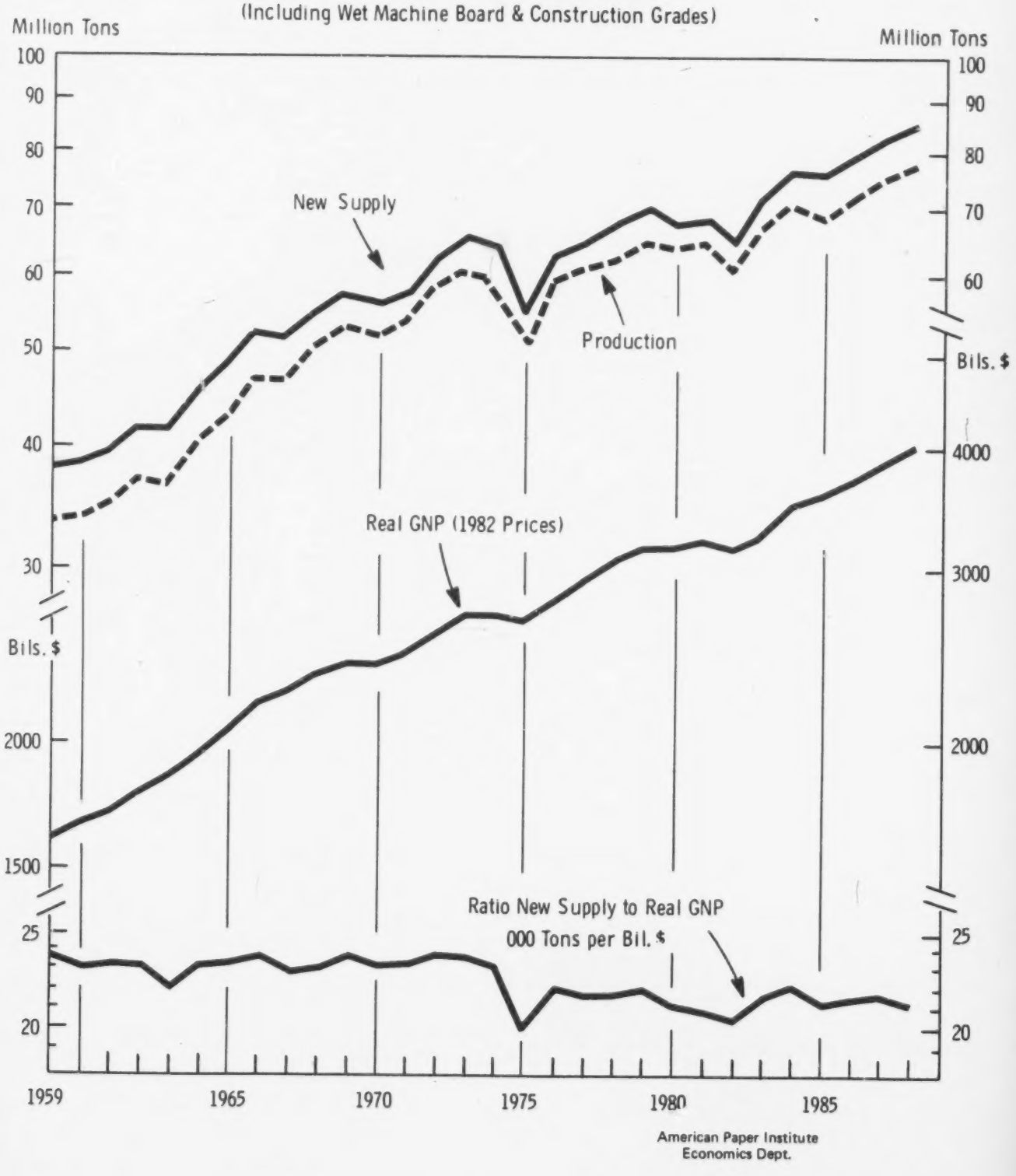

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TABLE IA

PAPER PLUS PAPERBOARD

PRODUCTION, IMPORTS, EXPORTS AND NEW SUPPLY

1959 - 1988

YEAR	Production	Imports	Exports	New Supply*	Real Gross National Product $ Bil. 1982 Prices	Ratio New Supply to Real GNP 000 Tons/$ Bil.
	Thousand Tons					
1959	30,997	5,484	874	35,607	1,629.1	21.86
1960	31,221	5,611	990	35,842	1,665.3	21.52
1961	32,548	5,663	1,174	37,037	1,708.7	21.68
1962	34,407	5,719	1,154	38,972	1,799.4	21.66
1963	35,914	5,637	1,302	40,249	1,873.3	21.49
1964	38,066	6,154	1,660	42,560	1,973.3	21.57
1965	40,489	6,545	1,737	45,297	2,087.6	21.70
1966	43,904	7,327	1,904	49,327	2,208.3	22.34
1967	43,745	6,917	2,054	48,608	2,271.4	21.40
1968	47,071	6,793	2,587	51,277	2,365.6	21.68
1969	49,810	7,209	2,703	54,316	2,423.3	22.41
1970	48,719	7,057	2,779	52,997	2,416.7	21.93
1971	49,742	7,319	3,076	53,985	2,484.8	21.73
1972	53,842	7,567	3,020	58,389	2,608.5	22.38
1973	56,346	8,019	2,966	61,399	2,744.1	22.37
1974	55,756	7,970	3,720	60,006	2,729.3	21.99
1975	47,997	6,164	3,050	51,111	2,695.0	18.96
1976	54,993	7,042	3,388	58,647	2,826.7	20.75
1977	56,656	7,294	3,171	60,779	2,958.6	20.54
1978	58,571	8,781	3,301	64,050	3,115.2	20.56
1979	61,071	8,738	3,610	66,199	3,192.4	20.74
1980	61,042	8,304	5,148	64,198	3,187.1	20.14
1981	62,109	7,941	4,561	65,489	3,248.7	20.16
1982	59,296	7,603	4,187	62,712	3,166.0	19.81
1983	64,961	8,509	4,502	68,968	3,279.1	21.03
1984	68,468	10,576	4,310	74,734	3,501.4	21.34
1985	66,958	11,105	4,003	74,060	3,618.7	20.47
1986R	70,875	11,597	4,593	77,879	3,717.9	20.95
1987R	74,318	12,528	5,197	81,649	3,853.7	21.19
1988	76,403	12,788	5,559	83,632	4,024.7	20.78

SOURCE: See Table I

NOTE: All data exclude wet machine board, building paper and insulating board.

* - New Supply = Production plus imports less exports; includes imports and exports of products.

R - Revised

P - Preliminary

Chart 2

PAPER AND PAPERBOARD

(Excluding Wet Machine Board & Construction Grades)

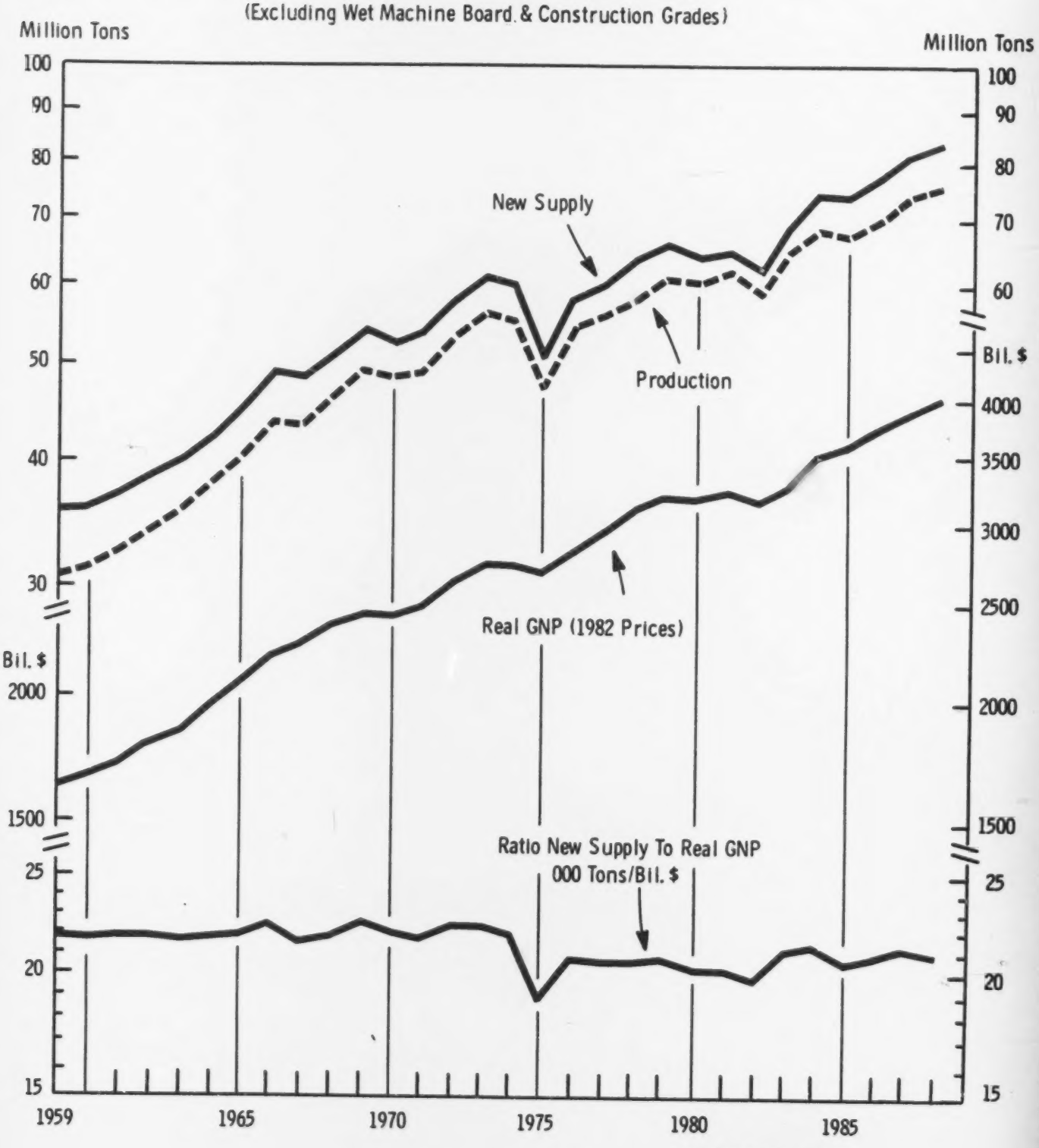

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Chart 3

UNITED STATES PAPER PRODUCTION

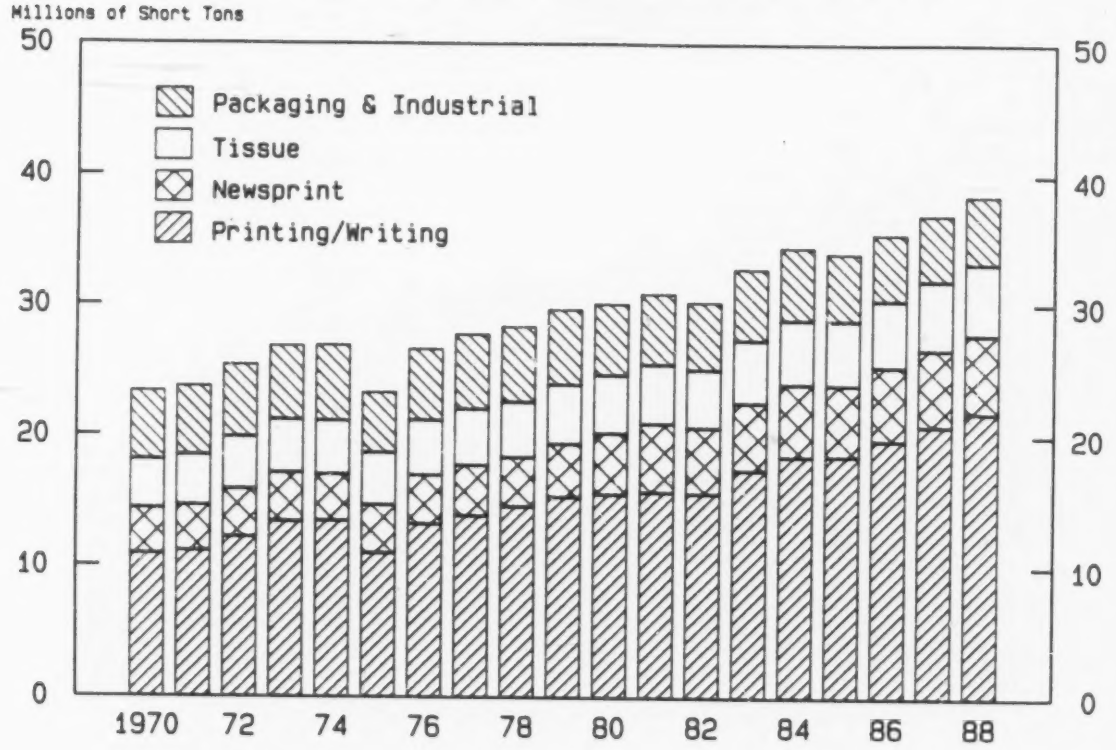


Chart 4

UNITED STATES PAPERBOARD PRODUCTION

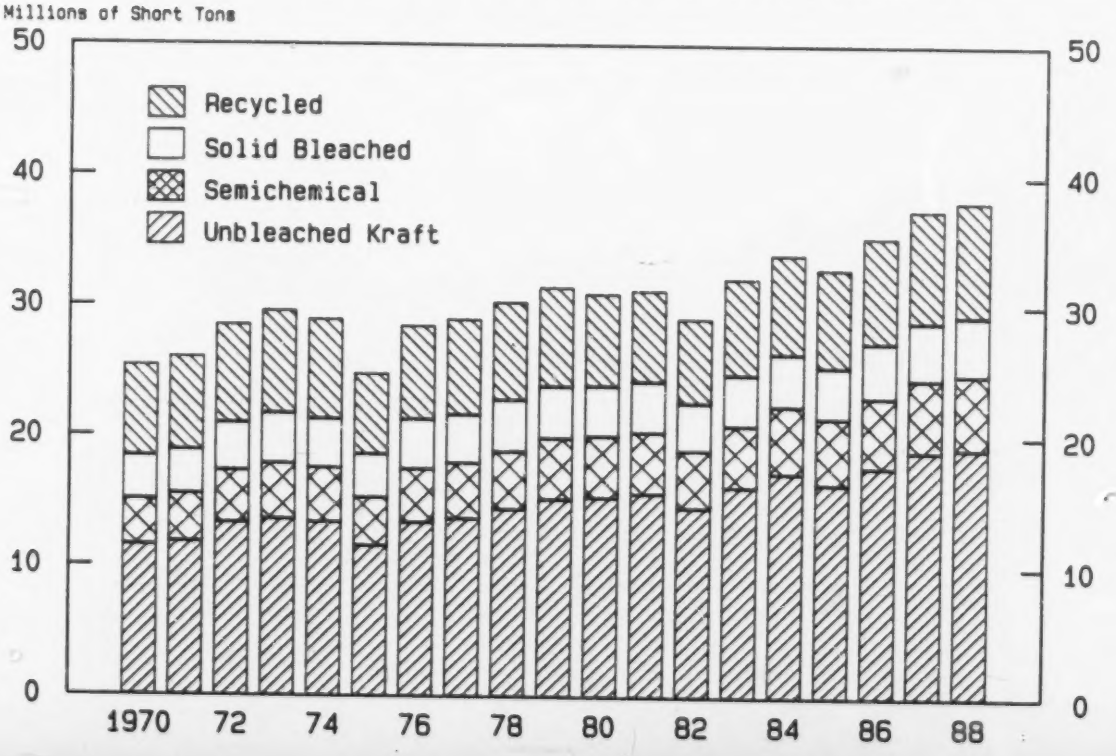


Chart 5

CHANGES IN THE STRUCTURE OF THE PAPER INDUSTRY

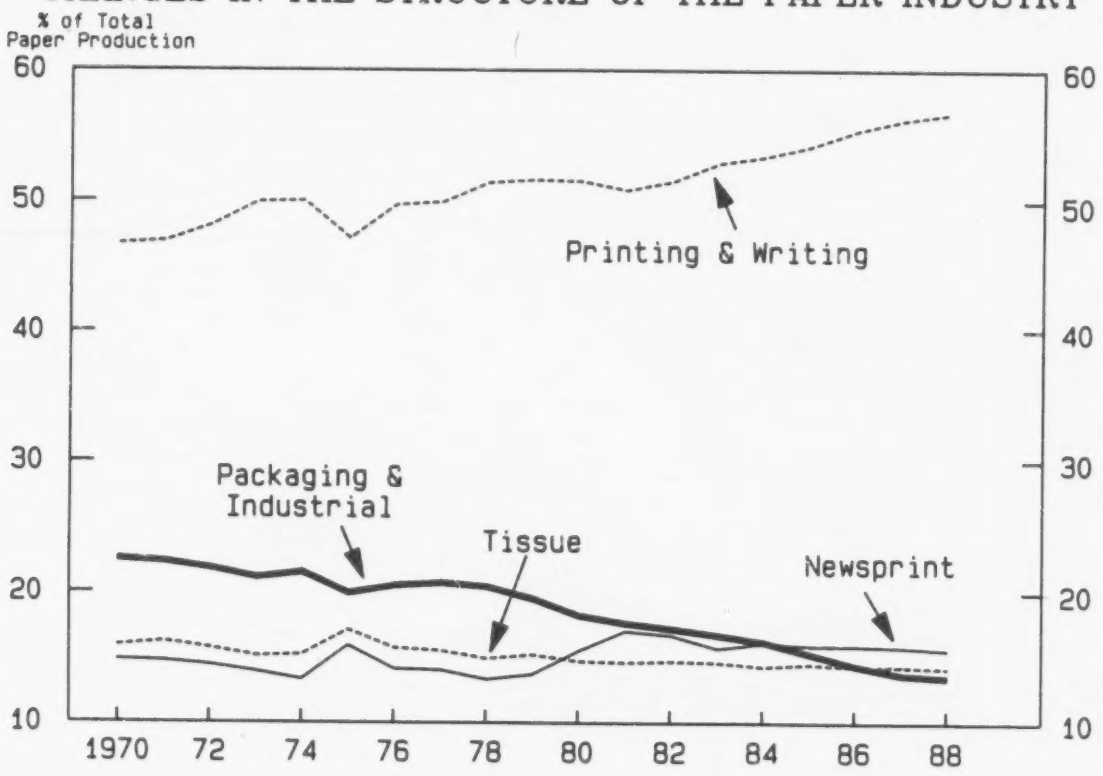


Chart 6

PERCENT OF U.S. NEWSPRINT CONSUMPTION PRODUCED IN U.S. AND CANADA

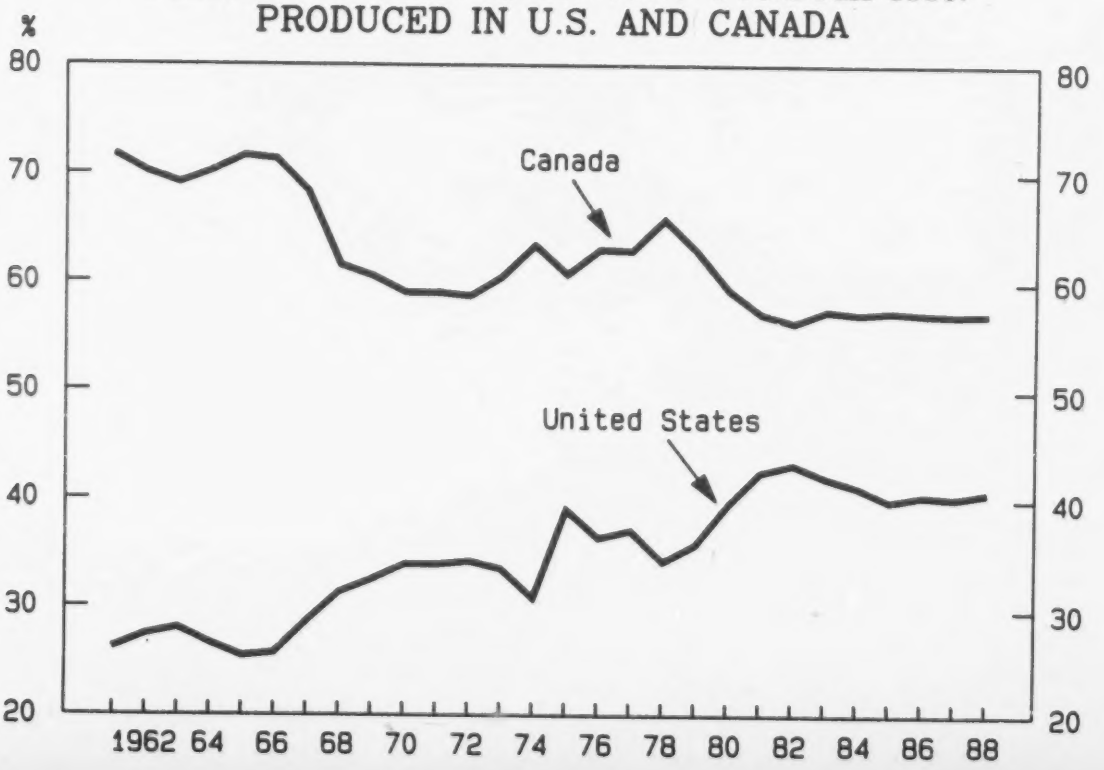


TABLE II

TOTAL PAPER SHIPMENTS

1961 - 1988

(Thousands of Tons)

	1961	1962	1963	1964	1965	1966	1967
TOTAL PAPER, ALL GRADES	15,821.1	16,560.4	17,319.5	18,111.7	19,157.0	20,724.9	20,925.6
Newsprint Production	2,094.0	2,153.9	2,218.0	2,261.0	2,245.0	2,483.0	2,709.0
Total Printing-Writing Papers	7,369.9	7,803.7	8,183.5	8,667.9	9,337.5	10,318.4	10,121.9
Uncoated Groundwood	907.3	909.7	956.4	995.4	974.0	1,088.3	1,019.6
Publishing and Printing	746.2	755.0	806.7	837.2	814.0	876.4	806.4
Converting	161.1	154.7	149.7	158.2	160.0	211.9	213.2
Coated Papers	2,159.3	2,290.5	2,425.2	2,608.3	2,814.2	3,087.6	3,086.4
Uncoated Free Sheet Papers	3,270.1	3,458.3	3,634.1	3,847.5	4,216.0	4,691.9	4,577.0
Bond and Writing	407.0	457.3	470.0	499.2	555.9	620.8	613.9
Form Bond	300.0	345.0	375.0	420.0	490.0	575.0	600.0
Ledger	43.5	45.9	45.1	43.0	46.6	49.1	47.5
Mimeograph	110.0	113.3	110.9	116.5	117.3	125.4	122.7
Duplicating	106.0	111.5	116.0	117.3	125.6	134.9	141.9
Manifold	24.3	22.9	17.4	15.5	19.9	20.2	17.2
Papeterie and Wedding	44.7	49.3	42.9	45.2	45.5	51.7	51.7
Carbonless	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Opaque Circular	28.8	26.5	27.3	20.6	22.9	23.8	24.6
Other	215.7	229.8	247.6	261.0	302.2	N.A.	N.A.
Cover and Text Papers	142.1	153.8	155.4	168.1	186.0	194.1	192.2
M.F., E.F. & Super Calendered	346.6	274.2	264.1	240.1	219.3	228.2	209.9
Offset	679.3	765.1	862.3	948.5	1,062.4	1,221.9	1,165.3
White Wove Envelope	280.0	310.6	318.8	357.3	392.4	412.8	423.0
Tablet	249.9	250.3	281.5	293.7	304.4	346.3	294.6
Kraft Envelope Papers: Total	164.1	175.3	175.2	172.0	194.0	203.7	188.5
Brown Kraft - Estimated	80.0	85.0	85.0	80.0	67.0E	68.1E	92.9E
Bleached Kraft - Estimated	84.1	90.3	90.2	92.0	127.0E	135.6E	95.6E
Other	128.5	127.5	124.6	129.5	433.8	484.0	484.0
Thin Papers	153.9	183.7	178.7	192.7	211.3	245.4	238.0
Cotton Fiber Papers	118.6	118.0	118.8	117.8	122.3	126.3	124.8
Bond and Writing	69.4	68.8	70.8	72.1	74.8	78.7	74.8
Other Business	30.4	30.5	29.7	28.0	29.0	28.8	30.1
Technical and Other	18.8	18.7	18.3	17.7	18.5	18.8	19.9
Bleached Bristols	760.7	843.5	870.3	906.2	999.7	1,078.9	1,076.1
Tabulating Index	342.9	393.7	395.5	419.4	478.6	514.4	533.2
Tag	149.5	154.6	164.7	171.5	194.9	196.9	187.4
File Folder	39.2	51.2	58.9	59.6	64.0	71.4	71.0
Index Bristol	94.2	97.6	98.0	97.4	100.6	115.0	105.5
Printing Bristol	21.7	22.3	22.3	22.4	23.4	26.5	24.6
Postcard	18.7	18.6	13.7	10.4	8.8	10.3	8.5
Coated Bristol	94.5	105.5	117.2	125.5	129.4	144.4	145.9
Total Packaging and Industrial Papers	4,045.0	4,188.6	4,341.6	4,436.1	4,683.9	4,823.7	4,865.8
Unbleached Kraft, Bleached Packaging, Glassine, Greaseproof & Vegetable Parchment	3,733.0	3,880.6	4,027.2	4,091.7	4,319.1	4,430.1	4,479.3
Unbleached Kraft Papers	2,779.7	2,890.9	3,051.4	3,098.4	3,293.1	3,414.4	3,391.9
Wrapping	343.2	339.2	354.6	352.2	358.9	370.0	334.7
Bag and Sack (Exc. Shipping Sack)	1,135.1	1,231.0	1,270.2	1,326.2	1,447.7	1,548.1	1,631.3
Shipping Sack	795.9	797.8	880.7	865.9	894.9	884.7	902.5
Other Converting	505.5	522.9	545.9	554.1	591.6	611.6	523.4
Bleached Packaging Papers (Census)	769.1	799.0	782.0	797.4	825.4	801.1	891.3
Wrapping	196.3	204.3	191.4	191.7	207.4	208.4	217.7
Bag and Sack (Exc. Shipping Sack)	121.7	134.5	130.4	138.5	163.1	171.6	185.5
Shipping Sack	61.4	59.8	67.0	75.2	72.0	73.7	89.1
Other Converting 1/	389.7	400.4	393.2	392.0	382.9	347.4	398.9
Glassine, Grsprf. and Veg. Parch. (Cen	184.2	190.7	193.8	195.9	200.6	214.6	196.1
Special Industrial Papers (Census)	312.0	308.0	314.4	344.4	364.8	393.6	386.5
Total Tissue Papers (Census)	2,312.2	2,414.2	2,576.4	2,746.7	2,890.6C	3,099.8C	3,228.9
Total Sanitary Tissue Stock	2,078.0	2,178.9	2,340.4	2,515.7	2,651.4	2,847.5	2,976.7
Toilet Tissue	936.1	985.4	1,054.6	1,107.2	1,120.9	1,169.9	1,171.0
Facial Tissue Stock	262.0	261.8	278.4	327.4	327.2	337.5	349.1
Napkin Stock	246.6	249.5	261.3	266.1	287.3	332.8	347.3
Towelling*	558.9	604.5	662.9	723.1	816.4	897.7	987.8
Wiper Stock*	26.5	31.9	33.1	38.4	40.1	49.1	48.9
Other Sanitary Tissue*	47.7	45.8	50.0	53.5	59.5	60.5	72.8
Total All Other Tissue	234.3	235.3	236.0	231.0	239.2	252.3	252.1

1/ Excludes Bleached Kraft Envelope Paper * Revised slightly by API

NOTE (Census): Current Industrial Reports, Pulp, Paper and Board C - Bureau of the Census data

TABLE II (Cont.)

TOTAL PAPER SHIPMENTS

1961 - 1988

(Thousands of Tons)

	1968	1969	1970	1971	1972	1973	1974
TOTAL PAPER, ALL GRADES	22,181.3RS	23,448.7	23,351.1	23,722.1	25,358.8	26,797.2	26,862.7
Newsprint Production	3,045.0	3,362.0	3,464.0	3,476.0	3,656.0	3,738.0	3,561.0◊
Total Printing-Writing Papers 2/	10,481.5	11,139.1	10,903.9	11,132.1	12,194.5	13,371.2	13,431.4
Uncoated Groundwood	1,090.3	1,094.9	1,084.6	1,089.2	1,126.0	1,180.9	1,192.4
Publishing and Printing	883.3	914.0	924.4	929.0	950.9	985.1	1,001.8
Converting	207.0	180.9	160.2	160.2	175.1	195.8	190.6
Coated Papers	3,100.5RS	3,306.4	3,239.2	3,191.9	3,483.2	3,779.1	3,775.8
Uncoated Free Sheet Papers 2/	4,787.7	5,182.9	5,090.4	5,350.9	5,953.2	6,673.6	6,755.3
Bond and Writing	627.1	718.0	698.6	761.5	889.6	1,075.0	1,332.6
Form Bond 2/	570.9	688.7	722.1	787.1	913.0	1,119.9	1,161.5
Ledger	54.6	51.1	48.2	51.5	53.9	62.0	71.0
Mimeograph 2/	134.9	132.6	126.4	125.5	128.2	143.3	128.8
Duplicating	160.9	172.5	165.6	162.9	171.4	182.4	178.4
Manifold	14.0	11.0	9.8	10.7	11.8	12.7	11.7
Papeterie and Wedding	56.0	59.9	53.9	51.9	51.1	57.3	47.3
Carbonless	50.0	65.0	80.0	90.0	105.0	120.0	160.0
Opaque Circular	23.3	25.0	23.6	24.5	26.2	33.6	38.1
Cover and Text Papers	192.8	2[illegible]1	193.2	181.0	194.4	219.5	213.1
M.F., E.F. & Super Calendered	198.2	7[illegible]3	162.1	147.6	128.6	154.6	128.1
Offset	1,295.4	1,3[illegible]5	1,384.0	1,467.9	1,688.0	1,862.5	1,838.7
White Wove Envelope	459.6	461.2	466.1	467.6	527.0	570.9	530.6
Tablet	313.0	320.9	342.4	401.3	396.5	305.5	167.5
Kraft Envelope Papers: Total	186.6	208.8	189.6	176.9	189.5	214.0	203.1
Brown Kraff	91.4E	102.9	95.7	93.7	93.2	106.7	98.3
Bleached Kraft	95.2E	105.9	93.9	83.2	96.3	107.3	104.8
Other 2/	450.4	472.3	424.8	443.0	479.0	540.4	544.8
Thin Papers	261.6	289.0	287.9	292.3	333.2	358.2	371.8
Cotton Fiber Papers	124.0	128.1	115.4	112.8	119.1	123.7	117.0
Bond and Writing	80.5	85.3	76.5	75.7	81.1	85.5	82.2
Other Business	25.2	24.7	23.4	21.1	22.2	22.8	20.8
Technical and Other	18.3	18.1	15.5	16.0	15.8	15.4	14.0
Bleached Bristols	1,117.4	1,137.8	1,096.4	1,095.0	1,179.8	1,255.7	1,219.1
Tabulating Index	534.6	558.7	499.6	458.3	465.0	491.2	498.6
Tag	203.7	193.5	184.3	193.5	217.1	220.3	140.1
File Folder	77.8	76.5	72.0	80.9	88.3	87.1	66.9
Index Bristol	104.4	100.4	102.3	106.1	120.9	130.9	181.0
Printing Bristol	24.0	28.4	32.0	32.9	39.2	46.9	52.5
Postcard	5.2	6.8	6.7	6.7	5.7	3.1	0.2
Coated Bristol	167.7	173.5	189.5	216.6	243.6	276.2	279.8
Total Packaging and Industrial Papers	5,198.9	5,336.8	5,264.8	5,281.4	5,531.7	5,649.2	5,783.9
Unbleached Kraft, Bleached Packaging, Glassine, Greaseproof & Vegetable Parchment	4,753.1	4,861.8	4,809.7	4,807.1	4,986.9	4,999.1	5,132.6
Unbleached Kraft Papers	3,602.5	3,670.2	3,672.4	3,649.2	3,810.9	3,901.6	4,033.5RS
Wrapping	353.5	327.7	296.4	280.3	282.5	272.3	175.3RS
Bag and Sack (Exc. Shipping Sack)	1,713.0	1,797.9	1,927.4	1,929.3	2,014.5	2,006.2	2,130.5RS
Shipping Sack	978.8	983.5	953.3	930.4	935.7	1,025.8	1,187.2RS
Other Converting	557.2	561.1	495.3	509.2	578.2	597.3	540.5RS
Bleached Packaging Papers (Census)	942.9	975.2	934.0	952.1	942.0	867.0	858.6
Wrapping	210.5	229.3	219.6	205.7	204.4	158.1	143.1
Bag and Sack (Exc. Shipping Sack)	207.8	227.3	218.6	234.7	240.8	254.2	245.2
Shipping Sack	88.7	99.8	97.9	101.9	105.1	104.4	130.2
Other Converting 1/	435.8	418.7	397.9	409.8	391.7	350.4	340.1
Glassine, Grspf. and Veg. Parch. (Census)	207.7	216.4	203.3	205.8	234.0	230.5	240.5
Special Industrial Papers (Census)	445.8	475.0	455.1	474.3	544.8	650.1	651.3RS
Total Tissue Papers	3,455.9	3,610.8	3,718.4	3,832.6	3,976.6	4,038.8	4,086.4
Total Sanitary Tissue Stock	3,217.2	3,368.6	3,494.0	3,604.3	3,746.2	3,771.8	3,823.2
Toilet Tissue	1,273.1	1,274.7	1,323.1	1 376.2	1,398.7	1,440.5	1,466.1
Facial Tissue Stock	349.8	386.4	365.0	341.1	367.2	361.8	356.9
Napkin Stock	374.7	377.8	381.2	394.7	419.3	447.7	442.5
Towelling	1,077.7	1,136.9	1,168.1	1,183.7	1,249.4	1,276.4	1,333.2
Wiper Stock	50.3	58.8	55.8	54.9	59.4	61.3	45.3
Other Sanitary Tissue	91.5	134.1	200.8	253.8	252.2	184.1	179.2
Total All Other Tissue	238.7	242.2	224.5	228.3	230.5	267.0	263.2

E - Estimated 1/ Excludes Bleached Kraft Envelope Paper 2/ API data RS - Revised Series
◊ - Basis weight change from 32 lb. to 30 lb.
NOTE (Census): Current Industrial Reports, Pulp, Paper and Board C - Bureau of the Census data

TABLE II (Cont.)

TOTAL PAPER SHIPMENTS

1961-1988

(Thousands of Tons)

	1975	1976	1977	1978	1979	1980	1981
TOTAL PAPER, ALL GRADES	**23,260.1**	**26,577.4**	**27,721.2**	**28,319.6**	**29,666.2**	**30,116.3**	**30,900.7**
Newsprint Production	**3,691.0**	**3,735.9**	**3,870.5**	**3,767.5**	**4,061.9**	**4,672.3**	**5,238.6**
Total Printing-Writing Papers 6/	**10,965.6**	**13,207.3**	**13,835.9**	**14,548.7**	**15,297.4**	**15,522.0**	**15,694.3**
Uncoated Groundwood	**1,127.2**	**1,320.6**	**1,359.7**	**1,354.4**	**1,509.0**	**1,498.8**	**1,471.1**
Publishing and Printing	947.5	1,066.5	1,082.4	1,061.0	1,186.0	1,178.2	1,113.1
Converting	179.7	254.1	277.3	293.4	323.0	320.6	358.0
Coated Papers	**3,155.4**	**3,933.1**	**4,210.3**	**4,399.9**	**4,472.3**	**4,621.6**	**4,892.7**
Uncoated Free Sheet Papers 6/	**5,328.3**	**6,452.8**	**6,748.8**	**7,202.0**	**7,817.1**	**7,984.2**	**7,867.4**
Bond and Writing	1,017.3	1,278.9	1,353.5	1,424.7	1,578.3	1,789.7	1,694.0
Form Bond	950.1	1,164.4	1,208.3	1,330.5	1,449.3	1,491.6	1,580.3
Ledger	51.2	57.8	59.9	57.7	58.0	51.3	49.9
Mimeograph	96.2	100.8	92.3	91.9	85.6	90.9	75.5
Duplicating	123.6	136.0	147.0	149.5	153.3	173.6	147.6
Manifold	9.0	12.0	9.2	12.1	10.8	8.9	4.0
Papeterie and Wedding	34.2	47.5	43.6	49.2	56.4	46.2	45.6
Carbonless	140.0	190.0	225.0	250.0	300.0	338.8	375.2
Opaque Circular	26.6	32.8	32.7	39.6	N.A.	N.A.	N.A.
Cover and Text Papers	156.2	175.3	189.1	212.1	243.1	238.2	243.0
M.F., E.F. & Super Calendered	66.5	69.3	66.1	69.5	85.9	78.7	77.3
Offset	1,462.5	1,781.4	1,889.5	1,920.2	2,155.2	2,071.2	2,018.5
White Wove Envelope	456.6	519.9	554.4	592.3	634.9	649.9	638.3
Tablet	229.3	299.6	285.4	350.4	320.1	323.1	316.9
Kraft Envelope Papers: Total	163.8	204.0	203.3	230.2	234.4	226.2	221.5
Brown Kraft	83.4	101.4	101.1	121.1	115.6	111.7	111.0
Bleached Kraft	80.4	102.6	102.2	109.1	118.8	114.5	110.5
Other	345.2	383.1	389.5	422.1	451.8	405.9RS	379.8
Thin Papers	**310.8**	**348.4**	**338.7**	**351.7**	**371.4**	**333.0**	**353.4**
Cotton Fiber Papers	**94.5**	**104.2**	**108.5**	**114.4**	**124.6**	**126.3**	**125.6**
Bond and Writing	67.6	75.8	80.2	84.4	93.1	95.2	95.3
Other Business	16.3	15.8	15.6	16.3	16.6	14.1	13.7
Technical and Other	10.6	12.6	12.7	13.7	14.9	17.0	16.6
Bleached Bristols	**949.4**	**1,048.2**	**1,069.9**	**1,126.3**	**1,003.0**	**958.1**	**984.1**
Tabulating Index	372.7	334.3	338.0	310.6	217.0	202.3	152.8
Tag	132.3	177.6	177.1	207.7	208.7	177.7	194.3
File Folder	86.0	92.0	99.3	112.3	127.6	114.0	127.0
Index Bristol	119.0	140.8	135.6	143.4	137.9	147.0	143.4
Printing Bristol	37.9	43.0	46.4	51.3	53.0	52.1	51.1
Postcard	1.3	1.4	1.3	0.6	0.2	0.4	1.4
Coated Bristol	200.2	259.1	272.2	300.4	258.6	264.6	314.1
Total Packaging and Industrial Papers	**4,624.1**	**5,450.6**	**5,729.6**	**5,788.6**	**5,786.4**	**5,483.5**	**5,450.3**
Unbleached Kraft, Bleached Packaging, Glassine, Greaseproof & Veg. Parchment	**4,138.4**	**4,824.0**	**5,151.2**	**5,237.6**	**5,196.8**	**4,961.0**	**4,396.72/RS**
Unbleached Kraft Papers	3,253.7	3,788.1	3,805.6	3,863.4	3,931.0	3,815.8	3,569.1RS
Wrapping	139.1	150.0	156.4	156.3	149.6	115.7	99.1RS
Bag and Sack (Exc. Shipping Sack)	1,924.6	2,106.2	2,099.7	2,224.5	2,225.8	2,269.4	2,207.9RS
Shipping Sack	838.4	1,004.2	1,035.0	990.3	1,085.8	1,033.3	1,014.6
Other Converting	351.6	527.7	514.5	492.3	469.8	397.4	247.5RS
Bleached Packaging Papers (Census)	693.5	828.7	1,127.0*	1,115.2*	1,031.9	943.5	375.7RS
Wrapping	115.3	126.4	136.1	154.2	118.9	102.6	33.12/RS
Bag and Sack (Exc. Shipping Sack)	227.8	273.9	304.1	276.7	250.4	228.6	212.02/RS
Shipping Sack	95.3	127.6	106.8	91.6	102.4	92.0	73.92/
Other Converting 1/	255.1	300.8	580.0	592.7	560.2	520.3	56.7RS
Glassine, Grsprf. and Veg. Parch.	191.2	207.2	218.6	259.0	233.9	201.7	451.9
Special Industrial Papers 6/	**485.7**	**626.6**	**578.4**	**551.0**	**589.6**	**522.5**	**1053.6RS**
Total Tissue Papers (Census)	**3,979.4**	**4,183.6**	**4,285.2**	**4,214.8**	**4,520.5**	**4,438.5**	**4,517.5**
Total Sanitary Tissue Stock	**3,771.9**	**3,954.6**	**4,069.6**	**4,017.4**	**4,324.5**	**4,284.6**	**4,366.8**
Toilet Tissue	1,520.1	1,608.9	1,660.2	1,643.2	1,742.4	1,685.0	1,714.0
Facial Tissue Stock	339.8	335.1	336.0	329.0	357.9	360.4	369.4
Napkin Stock	462.1	455.2	491.9	493.1	537.2	561.8	577.6
Towelling	1,248.5	1,323.2	1,353.4	1,317.6	1,404.0	1,392.4	1,415.3
Wiper Stock	37.0	46.4	43.8	44.8	58.8	58.0	77.5
Other Sanitary Tissue	164.6	185.9	184.3	189.6	224.2	227.0	213.0
Total All Other Tissue	**207.5**	**228.9**	**216.0**	**197.4**	**196.0**	**153.9**	**150.7**

NOTE (Census): Current Industrial Reports, Pulp, Paper and Board
1/ Excludes Bleached Kraft Envelope Paper 2/ API data 6/ Series revised from 1968 to present.
* Data overstated by about 10% based on 1980 revision of 1979 data.
RS Revised Series

TABLE II (Cont.)

TOTAL PAPER SHIPMENTS

1961 - 1988

(Thousands of Tons)

	1982R	1983R	1984R	1985R	1986R	1987R	1988
TOTAL PAPER, ALL GRADES	**30,251.8**	**32,815.5**	**34,465.5**	**34,035.7**	**35,519.7**	**36,875.8**	**38,297.8**
Newsprint Production	5,041.9	5,167.0	5,538.8	5,427.7	5,630.0	5,842.0	5,982.0
Total Printing-Writing Papers 6/	15,574.9	17,364.7	18,420.1	18,463.0	19,678.0	20,778.1	21,792.6
Uncoated Groundwood	1,470.8	1,530.8	1,565.3	1,520.9	1,539.6	1,498.2	1,623.6
Publishing and Printing	1,123.1	1,187.9	1,252.2	1,229.8	1,212.9	1,197.7	1,373.7
Converting	347.7	342.9	313.1	291.1	326.7	300.5	249.9
Coated Papers	4,991.0	5,715.8	6,248.9	5,875.1	6,262.7	6,859.6	7,359.0
Uncoated Free Sheet Papers 6/	7,809.3	8,725.7	9,152.3	9,689.9	10,409.5	10,965.8	11,277.0
Bond and Writing	1,768.5	2,057.3	2,114.8	2,288.5	2,496.9	2,776.1	2,953.1
Form Bond	1,510.4	1,687.5	1,829.4	1,921.8	2,150.6	2,157.4	2,127.3
Ledger	48.9	51.4	50.6	50.3	50.4	50.6	41.5
Mimeograph	53.0	55.9	47.6	44.1	46.2	35.4	28.3
Duplicating	139.8	132.1	117.4	101.9	78.4	61.3	45.0
Manifold	3.1	2.9	2.3	2.0	1.3	1.4	1.3
Papeterie and Wedding	42.0	38.7	42.8	41.4	43.1	40.5	39.8
Carbonless 5/	378.7	400.0	443.4	495.8	541.3	599.2	684.4
Opaque Circular	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Cover and Text Papers	235.1	276.0	299.5	288.9	310.0	329.1	348.6
M.F., E.F. & Super Calendered	68.7	87.5	79.2	77.4	83.5	74.5	86.0
Offset 4/	2,017.6	2,209.8	2,396.4	2,469.1	2,633.6	2,818.5	2,917.9
White Wove Envelope	638.7	715.1	773.7	789.3	867.1	916.2	942.5
Tablet	345.3	406.1	299.2	443.2	411.5	424.5	378.6
Kraft Envelope Papers: Total	207.8	230.7	237.4	234.7	254.1	255.9	268.9
Brown Kraft	102.2	114.2	113.8	125.4	132.5	131.8	144.3
Bleached Kraft	105.6	116.5	123.6	109.3	121.6	124.1	124.6
Other 6/	351.7	374.7	418.6	441.5	441.5	435.2	413.8
Thin Papers	297.0	292.4	303.4R	263.0R	270.7	240.1	216.5
Cotton Fiber Papers	120.2	132.7	147.2	144.1	152.0	162.8	167.0
Bond and Writing	94.8	105.9	119.4	117.4	125.4	136.1	138.3
Other Business	11.0	10.6	8.8	8.7	7.2	7.3	7.1
Technical and Other	14.4	16.2	19.0	18.0	19.4	19.4	21.6
Bleached Bristols R	886.6	967.3	1,003.0	970.0	1,043.5	1,051.6	1,149.5
Tabulating Index	123.2	106.7	67.6	70.0	60.0	50.0	40.0
Tag	168.9	190.9	196.7	184.1	186.6	184.1	185.1
File Folder	121.1	144.8	140.9	165.0	179.8	194.2	213.5
Index Bristol	133.4	140.9	146.5	146.5	147.7	144.2	152.7
Printing Bristol	49.6	55.4	56.6	57.4	59.7	62.6	67.4
Postcard	2.4	1.9	2.8	3.2	5.8	5.4	3.2
Coated Bristol	288.0	326.7	392.1	349.3	403.9	411.1	487.6
Total Packaging and Industrial Papers	**5,197.4**	**5,495.2**	**5,586.0**	**5,204.5**	**5,116.8**	**4,954.8**	**5,047.1**
Unbleached Kraft and Bleached Packaging Glassine, Greaseproof & Veg. Parch. RS	4,234.0	4,442.5	4,474.7	4,187.2	4,061.3	3,791.4	3,861.3
Unbleached Kraft Papers RS	3,412.5	3,505.43/	3,519.5	3,246.1	3,115.5	2,839.5	2,800.1
Wrapping RS	86.3	93.2	90.5	86.0	89.0	79.9	83.3
Bag and Sack (Exc. Ship. Sack) RS	2,209.7	2,287.5	2,290.9	2,115.3	2,048.4	1,763.5	1,684.3
Shipping Sack	895.1	878.9	883.3	796.8	747.4	784.0	840.0
Other Converting RS	221.4	245.8	254.8	248.0	230.7	212.1	192.5
Bleached Packaging Papers RS	381.6	429.3	454.2	436.8	435.6	406.6	465.0
Wrapping RS	31.3	31.1	26.9	21.5	16.1	16.0	24.1
Bag and Sack (Exc. Ship. Sack) RS	217.5	235.6	254.2	261.5	259.2	237.9	261.5
Shipping Sack	77.9	88.5	90.1	80.1	84.4	98.2	110.6
Other Converting 1/ RS	54.9	74.1	83.0	73.7	75.9	54.5	68.8
Specialty Packaging	439.9	507.8	501.0	504.3	510.2	545.3	596.2
Special Industrial Papers RS	963.4	1,052.7	1,111.3	1,017.3	1,055.5	1,163.4	1,185.8
Total Tissue Papers	**4,437.6**	**4,788.6**	**4,920.6**	**4,940.5**	**5,094.9**	**5,300.9**	**5,476.1**
Total Sanitary Tissue Stock	4,289.3	4,611.2	4,760.6	4,797.5	4,943.6	5,137.2	5,282.4
Toilet Tissue	1,748.2	1,835.2	1,851.6	1,882.4	1,905.6	1,930.0	2,032.3
Facial Tissue Stock	359.3	389.3	378.5	353.8	359.1	345.2	351.4
Napkin Stock	606.1	532.6	569.8	579.0	613.7	668.4	697.4
Towelling	1,334.1	1,577.2	1,670.8	1,700.4	1,768.1	1,850.2	1,863.3
Wiper Stock	50.8	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Other Sanitary Tissue	190.8	276.9	289.9	281.9	297.1	343.4	338.0
Total All Other Tissue	148.3	177.4	160.0	143.0	151.0	163.7	193.7

1/ Excludes Bleached Kraft Envelope Paper 2/ API data series R - Revised P - Preliminary
3/ Data after 1983 may not be fully comparable to earlier data because of changes in procedures in calculating the total industry shipments. 4/ Opaque circular paper included in offset from 1979 to present. 5/ Includes base stock
6/ Series revised from 1968 to present.
N.A. - Not Available
RS - Revised Series

TABLE III

PAPERBOARD PRODUCTION 1955-1988

BY END USE

TONS

YEAR	PAPERBOARD TOTAL	CONTAINERBOARD-DOMESTIC USE Total	Linerboard	Corrugating Material	Chip and Filler Boards
1955	14,043,700	7,244,200	4,789,600	2,165,400	289,200
1956	14,371,600	7,451,300	4,933,400	2,249,500	268,400
1957	14,181,900	7,337,200	4,869,700	2,215,600	251,900
1958	14,237,000	7,259,200	4,818,900	2,191,300	249,000
1959	15,972,000	8,232,000	5,475,400	2,498,800	257,800
1960	15,926,500	8,186,600	5,474,800	2,461,000	250,800
1961	16,727,300	8,661,300	5,753,900	2,649,300	258,100
1962	17,847,400	9,299,000	6,216,500	2,822,100	260,400
1963	18,593,600	9,638,300	6,414,000	2,961,800	262,500
1964	19,953,800	10,341,900	6,907,500	3,165,100	269,300
1965	21,331,500	11,199,100	7,480,600	3,438,200	280,300
1966	23,178,600	12,459,600	8,347,300	3,799,800	312,500
1967	22,819,300	12,248,600	8,215,600	3,743,500	289,500
1968	24,903,600	13,388,400	9,043,700	4,061,900	282,800
1969	26,375,700	14,396,400	9,692,500	4,395,400	308,600
1970RS	25,367,500R	13,756,600R	9,403,100	4,264,000	89,500*
1971	26,019,100R	14,125,500R	9,530,800	4,519,700	75,000*
1972	28,483,300R	15,772,300R	10,856,500	4,846,600	69,200*
1973	29,548,900R	16,689,700R	11,355,800	5,255,100	78,800*
1974	28,893,600R	16,552,300R	11,305,500	5,179,300	67,500*
1975	24,736,300R	14,354,300R	9,854,300	4,449,300	50,700*
1976	28,415,600R	16,493,100R	11,375,900	5,061,400	55,800*
1977	28,934,700R	16,951,300R	11,695,800	5,207,900	47,600*
1978	30,251,100R	17,687,000R	12,133,700	5,503,100	50,200*
1979	31,404,100R	18,649,600R	12,819,600	5,775,900	54,100*
1980	30,925,900R	17,886,700R	12,393,100	5,445,600	48,000*
1981	31,208,300R	18,811,700R	13,078,500	5,702,000	31,200*
1982	29,044,700R	17,309,400R	11,935,500	5,341,800	32,100*
1983	32,145,700R	18,999,800R	13,124,700	5,838,100	37,000*
1984	34,002,100R	20,715,400R	14,272,500	6,404,200	38,700*
1985	32,921,800R	20,042,200	13,752,900	6,255,400	33,900*
1986	35,355,400R	21,443,300R	14,725,800R	6,686,600	30,900
1987	37,442,000R	23,047,100R	15,992,700R	7,016,900	37,500
1988	38,104,600	23,563,200	16,177,300	7,350,900	35,000

*Reclassification. Balance of chip board (non-containerboard grades) included in "All Other." RS = Revised Series

TABLE III (Cont.)

PAPERBOARD PRODUCTION 1955-1988

BY END USE

TONS

YEAR	BOXBOARD-DOMESTIC USE				ALL OTHER
	Total	Folding	Set-Up	Milk Carton & Food Service	Total
1955	4,407,400	2,938,800	636,700	831,900	2,392,100
1956	4,530,300	2,970,900	636,700	922,700	2,390,000
1957	4,513,400	3,020,800	568,200	924,400	2,331,300
1958	4,533,300	3,032,500	538,600	962,200	2,444,500
1959	4,911,400	3,285,900	576,100	1,049,400	2,828,600
1960	4,894,900	3,291,200	525,100	1,078,600	2,845,000
1961	5,007,500	3,374,800	496,800	1,135,900	3,058,500
1962	5,265,200	3,501,800	523,800	1,239,600	3,283,200
1963	5,417,200	3,635,800	526,800	1,254,600	3,538,100
1964	5,580,800	3,752,300	534,000	1,294,500	4,031,100
1965	5,811,200	3,879,600	547,300	1,384,300	4,321,200
1966	6,075,900	4,040,300	559,700	1,475,900	4,643,100
1967	5,973,100	4,020,700	496,100	1,456,300	4,597,600
1968	6,334,000	4,218,300	519,500	1,596,200	5,181,200
1969	6,424,800	4,261,600	498,600	1,664,600	5,554,500
1970RS	6,303,100	4,144,100	466,500	1,692,500	5,307,800
1971	6,195,700	4,101,400	448,000	1,646,300	5,697,900
1972	6,531,600	4,420,500	455,100	1,656,000	6,179,400
1973	6,741,800	4,682,100	465,300	1,594,400	6,117,400
1974	6,377,700	4,405,200	403,600	1,568,900	5,963,600
1975	5,644,600	3,877,200	304,500	1,462,900	4,737,400
1976	6,540,800	4,690,900	331,400	1,518,500	5,381,700
1977	6,313,900	4,528,300	302,500	1,483,100	5,669,500
1978	6,457,400	4,678,500	332,700	1,446,200	6,106,700
1979	6,443,800	4,695,100	306,000	1,442,700	6,310,700
1980	6,126,600	4,463,500	241,500	1,421,600	6,912,600
1981	6,192,500	4,563,900	236,000	1,392,600	6,204,100
1982	5,820,200	4,313,000	223,600	1,283,600	5,915,100
1983	6,230,100	4,615,100	256,300	1,358,700	6,915,800
1984	6,498,600	4,839,000	263,800	1,395,800	6,788,100
1985	6,412,800	4,805,100	226,600	1,381,100	6,466,800
1986	6,671,100R	5,056,500R	219,300	1,395,300R	7,241,000R
1987	6,874,100R	5,209,700R	242,500R	1,421,900R	7,520,800R
1988	7,013,600	5,292,200	278,700	1,442,700	7,527,800

RS = Revised Series

TABLE IV

CONTAINERBOARD PRODUCTION 1955-1988

FOR DOMESTIC USE

TONS

YEAR	CONTAINERBOARD TOTAL	LINERBOARD		
		Total	Kraft	Recycled
1955	7,244,200	4,789,600	3,947,400	842,200
1956	7,451,300	4,933,400	4,139,600	793,800
1957	7,337,200	4,869,700	4,097,900	771,800
1958	7,259,200	4,818,900	4,110,200	708,700
1959	8,232,000	5,475,400	4,701,000	774,400
1960	8,186,600	5,474,800	4,731,200	743,600
1961	8,661,300	5,753,900	5,095,700	658,200
1962	9,299,000	6,216,500	5,514,700	701,800
1963	9,638,300	6,414,000	5,706,100	707,900
1964	10,341,300	6,907,500	6,188,000	719,500
1965	11,199,100	7,480,600	6,698,100	782,500
1966	12,459,600	8,347,300	7,550,200	797,100
1967	12,248,600	8,215,600	7,693,300	522,300
1968	13,388,400	9,043,700	8,612,200	431,500
1969	14,396,400	9,692,500	9,345,300	347,200
1970RS	13,756,600	9,403,100	9,133,400	269,700
1971	14,125,500	9,530,800	9,249,100	281,700
1972	15,772,300	10,856,500	10,577,600	278,900
1973	16,689,700	11,355,800	11,066,800	289,000
1974	16,552,300	11,305,500	10,838,400	467,100
1975	14,354,300	9,854,300	9,647,000	207,300
1976	16,493,100	11,375,900	11,093,200	282,700
1977	16,951,300	11,695,800	11,354,400	341,400
1978	17,687,000	12,133,700	11,877,300	256,400
1979	18,649,600	12,819,600	12,417,300	402,300
1980	17,886,700	12,393,100	11,948,600	444,500
1981	18,811,700	13,078,500	12,754,300	324,200
1982	17,309,400	11,935,500	11,656,500	279,000
1983	18,999,800	13,124,700	12,835,600	289,100
1984	20,715,400	14,272,500	14,068,800	203,700
1985	20,042,200	13,752,900	13,467,100	285,800
1986	21,443,300R	14,725,800R	14,305,500R	420,300
1987	23,047,100R	15,992,700R	15,514,400R	478,300
1988	23,563,200	16,177,300	15,770,700	406,600

RS = Revised Series

TABLE IV (Cont.)

CONTAINERBOARD PRODUCTION 1955-1988

FOR DOMESTIC USE

TONS

YEAR	CORRUGATING MATERIAL			CHIP & FILLER BOARDS
	Total	Semi-Chemical◊	Recycled	Total
1955	2,165,400	1,470,200	695,200	289,200
1956	2,249,500	1,551,700	697,800	268,400
1957	2,215,600	1,557,800	657,800	251,900
1958	2,191,300	1,486,200	705,100	249,000
1959	2,498,800	1,786,100	712,700	257,800
1960	2,461,000	1,788,900	672,100	250,800
1961	2,649,300	2,023,500	625,800	258,100
1962	2,822,100	2,188,800	633,300	260,400
1963	2,961,800	2,287,100	674,700	262,500
1964	3,165,100	2,447,400	717,700	269,300
1965	3,438,200	2,638,200	800,000	280,300
1966	3,799,800	2,909,800	890,000	312,500
1967	3,743,500	2,982,100	761,400	289,500
1968	4,061,900	3,371,200	690,700	282,800
1969	4,395,400	3,617,000	778,400	308,000
1970RS	4,264,000	3,404,700	859,300	89,500*
1971	4,519,700	3,580,200	939,500	75,000*
1972	4,846,600	3,874,300	972,300	69,200*
1973	5,255,100	4,126,600	1,128,500	78,800*
1974	5,179,300	4,010,300	1,169,000	67,500*
1975	4,449,300	3,579,300	870,000	50,700*
1976	5,061,400	3,986,400	1,075,000	55,800*
1977	5,207,900	4,128,200	1,079,700	47,600*
1978	5,503,100	4,305,300	1,197,800	50,200*
1979	5,775,900	4,573,600	1,202,300	54,100*
1980	5,445,600	4,398,500	1,047,100	48,000*
1981	5,702,000	4,561,200	1,140,800	31,200*
1982	5,341,800	4,202,500	1,139,300	32,100*
1983	5,838,100	4,532,700	1,305,400	37,000*
1984	6,404,200	5,018,800	1,385,400	38,700*
1985	6,255,400	4,896,600	1,358,800	33,900*
1986	6,686,600	5,160,800	1,525,800	30,900*
1987	7,016,900R	5,343,800R	1,673,100R	37,500
1988	7,350,900	5,527,700	1,823,200	35,000

◊Includes a small amount of unbleached kraft for years 1970-1976.

RS - Revised Series

*Reclassification. Balance of chipboard (non-containerboard grades) included in "All Other."

TABLE V

BLEACHED PAPERBOARD PRODUCTION 1960 - 1988

TONS

YEAR	Milk Cartons	Folding Cartons	Heavyweight Cup, Rounded Nested Food Containers and Cup Lids	Plate Dish and Tray	Other Packaging Uses*	Linerboard
1960	571,000	745,200	287,400	123,700	136,200	76,000
1961	600,500	797,600	312,900	127,900	146,100	103,500
1962	678,500	865,100	324,400	148,400	139,200	124,200
1963	677,100	943,000	325,300	160,200	153,400	124,200
1964	692,000	988,800	329,200	178,800	182,300	101,100
1965	752,100	1,051,800	339,000	202,100	182,600	75,000
1966	783,200	1,100,700	367,200	232,100	200,400	100,300
1967	772,800	1,133,800	368,600	247,300	171,400	89,500
1968	848,800	1,234,100	412,000	258,900	195,100	104,900
1969	884,600	1,346,000	416,200	282,200	200,900	113,600
1970RS	940,700	1,327,700	374,200	279,600	198,600	118,800
1971	918,800	1,354,100	366,700	272,900	245,900	124,400
1972	894,400	1,553,500	395,600	313,300	288,600	129,800
1973	871,200	1,705,700	410,400	296,500	348,500	127,700
1974	850,200	1,654,600	415,800	289,600	382,700	99,400
1975	865,800	1,436,300	350,600	233,400	315,800	81,800
1976	822,900	1,773,400	412,300	266,700	402,200	99,500
1977	808,700	1,573,200	401,300	262,400	525,200	85,000
1978	731,200	1,739,500	418,700	287,100	614,900	115,700
1979**	718,700	1,688,800	432,000	274,100	690,200	110,900
1980	677,600	1,548,300	419,500	298,400	747,200	96,300
1981	631,800	1,631,200	441,700	287,400	749,200	100,600
1982	590,500	1,546,200	374,800	274,500	726,900	93,400
1983	606,900	1,693,700	426,300	281,100	738,700	115,000
1984	632,700	1,809,600	416,400	303,500	700,300	118,500
1985	609,000	1,742,000	438,200	284,000	693,600	113,800
1986	581,400R	1,911,300R	437,200	322,200R	779,600R	132,000
1987	619,500R	2,002,800R	444,100	316,000R	843,200R	134,300
1988	606,400	2,016,300	467,700	324,100	877,900	169,800

* - Includes Exports
** - Starting in 1979 lightweight cup is included with heavyweight cup. RS - Revised Series

TABLE V (Cont.)

BLEACHED PAPERBOARD PRODUCTION 1960 - 1988

TONS

YEAR	SUMMARY OF PACKAGING PAPERBOARD			NON-PKG. USES	BLEACHED PAPERBOARD PRODUCTION
	Total Packaging Paperboard	Milk Carton and Food Service	Balance of Packaging Uses*	Total	TOTAL
1960	1,939,500	1,078,600	860,900	119,700	2,059,200
1961	4,088,500	1,135,900	952,600	151,500	2,240,000
1962	2,279,800	1,239,600	1,040,200	173,600	2,453,400
1963	2,383,200	1,254,600	1,128,600	181,800	2,565,000
1964	2,472,200	1,294,500	1,177,700	220,800	2,693,000
1965	2,602,600	1,384,300	1,218,300	244,400	2,847,000
1966	2,783,900	1,475,900	1,308,000	301,400	3,085,300
1967	2,783,400	1,456,300	1,327,100	273,800	3,057,200
1968	3,053,800	1,596,200	1,457,600	314,100	3,367,900
1969	3,243,500	1,664,600	1,578,900	316,400	3,559,900
1970RS	3,239,600	1,649,000	1,590,600	87,800	3,327,400
1971	3,282,800	1,604,300	1,678,500	80,500	3,363,300
1972	3,575,200	1,623,400	1,951,800	91,900	3,667,100
1973	3,760,000	1,594,300	2,165,700	81,500	3,841,500
1974	3,692,300	1,568,700	2,123,600	59,500	3,751,800
1975	3,283,700	1,462,100	1,821,600	40,300	3,324,000
1976	3,777,000	1,518,400	2,258,600	43,300	3,820,300
1977	3,655,800	1,483,100	2,172,700	47,200	3,703,000
1978	3,907,100	1,446,200	2,460,900	47,700	3,954,800
1979	3,914,700	1,442,700	2,472,000	58,600	3,973,300
1980	3,787,300	1,421,600	2,365,700	48,500	3,835,800
1981	3,841,900	1,392,600	2,449,300	44,200	3,886,100
1982	3,606,300	1,283,600	2,322,700	37,700	3,644,000
1983	3,861,700	1,358,700	2,503,000	33,100	3,894,800
1984	3,981,000	1,395,800	2,585,200	30,200	4,011,200
1985	3,880,600	1,381,100	2,499,500	30,200	3,910,800
1986	4,163,700R	1,395,300R	2,768,400R	43,500R	4,207,200R
1987	4,359,900R	1,421,900R	2,938,000R	46,400R	4,406,300R
1988	4,462,200	1,442,700	3,019,500	48,900	4,511,100

* Includes Exports RS = Revised Series

TABLE VI

PAPERBOARD PRODUCTION BY REGION

1965 - 1988

TONS

YEAR	PAPERBOARD TOTAL	CONTAINERBOARD-DOMESTIC Total	Linerboard	Corrugating Material	Container Chip & Filler Boards
NORTH EASTERN					
1965	2,874,700	710,800	192,700	481,100	37,000
1966	2,992,100	767,700	208,100	521,400	38,200
1967	2,810,100	695,200	121,500	539,000	34,700
1968	2,820,900	675,700	100,900	534,600	40,200
1969	2,769,600	687,000	83,000	569,200	34,800
1970RS	2,627,800	653,400	60,100	556,600	36,700
1971	2,525,300	634,800	54,400	551,100	29,300
1972	2,622,700	645,800	54,700	562,300	28,800
1973	2,733,900	725,300	56,900	615,300	53,100
1974	2,677,500	852,100	152,700	642,000	57,400
1975	2,052,100	536,400	35,200	445,400	55,800
1976	2,255,200	566,200	70,800	448,200	47,200
1977	2,247,300	562,900	70,800	446,600	45,500
1978	2,284,400	561,300	37,400	470,200	53,700
1979	2,259,800	564,200	61,400	456,700	46,100
1980	2,042,700	486,900	27,300	415,200	44,400
1981	1,867,700	369,900	-	328,500	41,400
1982	1,651,900	342,800	10,800	295,600	36,400
1983	1,891,100	380,300	45,600	317,800	16,900
1984	1,835,300	362,400	-	346,000	16,400
1985	1,828,100	333,300	-	327,300	6,000*
1986	1,929,800	375,700	-	369,300	6,400
1987	1,997,500	391,000	300	375,600	15,100
1988	2,066,600	422,500	15,400	398,600	8,500
SOUTHERN					
1965	11,270,100	6,680,400	5,330,100	1,318,300	32,000
1966	12,379,900	7,362,500	5,852,500	1,468,800	41,200
1967	12,537,100	7,435,600	5,964,900	1,435,600	35,100
1968	14,081,800	8,313,400	6,740,600	1,538,200	34,600
1969	15,433,100	9,181,100	7,488,200	1,651,400	41,500
1970RS	15,062,900	8,961,400	7,306,700	1,618,400	36,300
1971	15,764,500	9,330,700	7,507,600	1,789,600	33,500
1972	17,464,800	10,671,200	8,658,600	1,988,100	24,500
1973	18,157,000	11,256,800	9,083,500	2,159,000	14,300
1974	17,857,100	11,006,800	8,883,300	2,111,000	12,500
1975	15,733,100	9,882,100	7,957,800	1,860,900	63,400
1976	18,097,200	11,400,700	9,178,200	2,181,300	41,200
1977	18,204,300	11,541,000	9,299,000	2,199,400	42,600
1978	19,516,200	12,268,700	9,890,200	2,331,500	47,000
1979	20,194,200	12,692,100	10,280,600	2,376,900	34,600
1980	20,165,800	12,120,000	9,897,600	2,196,400	26,000
1981	20,418,200	12,863,000	10,527,900	2,300,900	34,200
1982	19,221,800	11,872,300	9,682,300	2,157,300	32,700
1983	20,899,300	12,864,300	10,546,500	2,280,500	37,300
1984	22,238,100	14,143,600	11,536,900	2,568,100	38,600
1985	21,389,700	13,606,500	11,068,800	2,536,200	1,500*
1986	22,963,600	14,364,300R	11,693,400R	2,668,500	2,400
1987	24,484,800	15,663,700R	12,811,700R	2,852,200R	-
1988	24,933,400	16,035,300	12,969,100	3,066,200	-

NOTE: Exports are included in "All Other"
NOTE: Detail does not necessarily add to totals due to rounding. RS - Revised Series

*Reclassification. Balance of chipboard (non-containerboard grades) included in "All Other."

TABLE VI (Cont.)

PAPERBOARD PRODUCTION BY REGION

1965 - 1988

TONS

YEAR	BOXBOARD-DOMESTIC				ALL OTHER
	Total	Folding	Set-Up	Milk Carton & Food Service	Total
NORTH EASTERN					
1965	1,293,000	972,100	248,800	72,100	870,900
1966	1,302,900	989,600	246,000	67,300	921,500
1967	1,233,600	954,800	214,800	64,000	881,300
1968	1,274,200	991,100	220,900	62,200	871,000
1969	1,178,800	911,900	202,200	64,700	903,800
1970RS	1,108,100	851,100	194,100	62,900	866,300
1971	1,003,900	767,100	176,200	60,600	886,600
1972	1,020,800	788,400	181,300	51,100	956,100
1973	961,900	752,200	181,000	28,700	1,046,700
1974	861,600	679,800	154,200	27,600	963,800
1975	724,500	582,000	116,500	26,000	791,200
1976	841,100	690,800	120,900	29,400	847,900
1977	865,100	735,400	102,500	27,200	819,300
1978	861,000	723,300	112,700	25,000	862,100
1979	840,900	721,900	85,500	33,500	854,700
1980	787,800	680,400	72,300	35,100	768,000
1981	780,100	687,900	63,400	28,800	717,700
1982	678,100	593,300	59,400	25,400	631,000
1983	730,900	631,000	74,100	25,800	779,900
1984	710,100	614,200	71,200	24,700	762,800
1985	673,800	587,000	65,200	21,600	821,000
1986	703,700R	649,600	54,100	- R	850,400R
1987	758,500R	686,900	71,600	- R	848,000R
1988	781,300	695,300	86,000	-	862,800
SOUTHERN					
1965	2,428,400	1,216,200	122,300	1,089,900	2,161,300
1966	2,649,200	1,309,900	128,400	1,210,900	2,368,200
1967	2,666,500	1,385,000	114,100	1,167,400	2,435,000
1968	2,944,000	1,490,200	127,800	1,326,000	2,824,400
1969	3,163,200	1,634,600	122,600	1,406,000	3,088,800
1970RS	2,887,100	1,349,900	113,400	1,423,800	3,214,400
1971	2,943,000	1,407,000	105,500	1,430,500	3,490,800
1972	3,110,000	1,555,000	108,400	1,446,600	3,683,600
1973	3,299,100	1,767,200	118,000	1,413,900	3,601,100
1974	3,169,100	1,677,300	104,900	1,386,900	3,681,200
1975	2,870,400	1,517,800	89,600	1,263,000	2,980,600
1976	3,329,800	1,899,500	99,700	1,330,600	3,366,700
1977	3,094,300	1,710,400	96,600	1,287,300	3,569,000
1978	3,278,400	1,892,700	104,500	1,281,200	3,969,100
1979	3,250,800	1,869,500	104,500	1,276,800	4,251,300
1980	3,123,300	1,768,800	100,300	1,254,200	4,922,500
1981	3,177,300	1,839,200	105,400	1,232,700	4,377,900
1982	2,991,900	1,740,500	94,500	1,156,900	4,357,600
1983	3,233,500	1,927,000	98,800	1,207,700	4,801,500
1984	3,392,800	2,046,000	107,300	1,239,500	4,701,700
1985	3,294,900	1,990,100	86,400	1,218,400	4,488,300
1986	3,483,400R	2,118,400R	94,400	1,270,600R	5,092,100R
1987	3,578,300R	2,210,000R	93,200R	1,275,100R	5,246,000R
1988	3,590,600	2,220,700	105,500	1,264,400	5,307,500

NOTE: Exports are included in "All Other"
NOTE: Detail does not necessarily add to totals due to rounding.
NOTE: For this Table unbleached kraft folding has been included in the "All Other" domestic data.
RS - Revised Series

TABLE VI (Cont.)

PAPERBOARD PRODUCTION BY REGION

1965 - 1988

TONS

YEAR	PAPERBOARD TOTAL	CONTAINERBOARD - DOMESTIC			
		Total	Linerboard	Corrugating Material	Container Chip & Filler Boards
NORTH CENTRAL					
1965	4,031,600	1,796,600	408,700	1,203,800	184,100
1966	4,191,700	1,880,100	400,700	1,282,600	196,800
1967	3,928,600	1,677,600	252,600	1,240,100	184,900
1968	4,174,400	1,802,200	190,100	1,431,400	180,700
1969	4,272,100	1,916,600	160,200	1,539,300	217,200
1970	3,936,000	1,788,900	110,300	1,471,000	207,600
1971	4,041,100	1,854,000	101,800	1,534,100	218,100
1972	4,245,500	1,926,000	106,400	1,597,400	222,200
1973	4,360,500	2,031,900	111,000	1,697,300	223,600
1974	4,186,500	2,005,700	176,600	1,637,900	191,200
1975	3,367,200	1,655,400	63,900	1,448,600	142,900
1976	3,927,900	1,869,800	57,000	1,663,900	148,900
1977	4,091,700	2,010,300	117,200	1,734,300	158,800
1978	4,164,200	2,127,500	98,600	1,870,400	158,500
1979	4,352,900	2,334,900	165,800	2,029,300	139,800
1980	4,137,700	2,271,100	191,400	1,943,500	136,100
1981	4,288,200	2,416,900	143,300	2,124,800	148,800
1982	3,979,300	2,210,000	103,900	1,984,300	121,800
1983	4,396,700	2,413,300	60,800	2,227,000	125,500
1984	4,770,400	2,600,900	75,300	2,409,600	116,000
1985	4,565,300	2,441,200	86,800	2,333,400	21,000*
1986	4,898,300	2,648,700	73,200	2,555,900	19,600
1987	5,042,900	2,716,500	72,400	2,623,900	20,200
1988	5,136,400	2,778,000	63,500	2,690,500	24,000
PACIFIC COAST					
1965	3,155,100	2,011,400	1,549,000	435,100	27,300
1966	3,614,900	2,449,300	1,886,000	527,100	36,300
1967	3,543,500	2,440,300	1,876,600	528,900	34,800
1968	3,826,500	2,597,100	2,012,000	557,800	27,300
1969	3,900,900	2,611,800	1,961,100	635,600	15,100
1970	3,740,800	2,560,600	1,926,000	618,000	16,600
1971	3,688,200	2,533,500	1,867,000	644,900	21,600
1972	4,150,300	2,776,000	2,036,800	698,800	40,400
1973	4,297,500	2,914,000	2,104,400	783,500	26,100
1974	4,172,500	2,902,400	2,092,900	788,300	21,200
1975	3,583,900	2,512,300	1,797,400	694,400	20,500
1976	4,135,300	2,863,500	2,069,900	768,000	25,600
1977	4,391,400	3,053,200	2,208,800	827,600	16,800
1978	4,286,300	2,950,800	2,107,500	831,000	12,300
1979	4,597,200	3,233,600	2,311,800	913,000	8,800
1980	4,579,700	3,192,300	2,276,800	890,500	25,000
1981	4,634,200	3,390,200	2,407,300	947,800	35,100
1982	4,191,700	3,082,400	2,138,500	904,600	39,300
1983	4,958,600	3,515,100	2,471,800	1,012,800	30,500
1984	5,158,300	3,748,200	2,660,300	1,080,506	7,400
1985	5,138,700	3,661,200	2,597,300	1,058,500	5,400*
1986	5,587,800R	4,054,900R	2,959,500R	1,092,900	2,500
1987	5,913,600	4,275,900	3,108,300	1,165,400	2,200
1988	5,968,200	4,327,400	3,129,300	1,195,600	2,500

*Reclassification. Balance of chipboard (non-containerboard grades) included in "All Other."

TABLE VI (Cont.)

PAPERBOARD PRODUCTION BY REGION

1965 - 1988

TONS

YEAR	BOXBOARD-DOMESTIC				ALL OTHER
	Total	Folding	Set-Up	Milk Carton & Food Service	Total
NORTH CENTRAL					
1965	1,517,300	1,288,600	150,000	78,700	717,700
1966	1,541,900	1,316,300	160,300	65,300	769,700
1967	1,489,300	1,288,300	140,800	60,200	761,700
1968	1,489,100	1,295,100	150,200	43,800	883,100
1969	1,458,000	1,279,300	154,100	24,600	897,500
1970	1,338,300	1,194,300	133,500	10,500	808,800
1971	1,345,500	1,195,800	140,900	8,800	841,600
1972	1,396,300	1,246,000	141,800	8,500	923,200
1973	1,379,400	1,236,300	142,700	400	949,200
1974	1,262,300	1,137,600	124,600	100	918,500
1975	1,018,400	937,200	80,600	600	693,400
1976	1,177,900	1,089,800	88,000	100	880,200
1977	1,165,200	1,077,500	87,700	-	916,200
1978	1,123,900	1,031,800	92,100	-	912,800
1979	1,105,500	1,009,700	95,800	-	912,500
1980	1,030,700	978,200	52,500	-	835,900
1981	1,062,300	1,011,800	50,500	-	809,000
1982	1,035,100	984,200	50,900	-	734,200
1983	1,112,100	1,049,800	62,300	-	871,300
1984	1,176,000	1,104,900	71,100	-	993,500
1985	1,154,900	1,090,100	64,800	-	969,200
1986	1,131,100	1,064,400	66,700	-	1,118,500
1987	1,182,700	1,110,000	72,700	-	1,143,700
1988	1,178,000	1,094,300	83,700	-	1,180,400
PACIFIC COAST					
1965	572,600	402,800	26,200	143,600	571,100
1966	582,000	424,500	25,000	132,500	583,600
1967	583,600	392,600	26,300	164,700	519,600
1968	626,800	442,000	20,600	164,200	602,600
1969	624,800	435,800	19,700	169,300	664,300
1970	626,200	405,400	25,500	195,300	554,000
1971	563,700	391,900	25,400	146,400	591,000
1972	614,700	441,300	23,600	149,800	759,600
1973	646,600	471,600	23,600	151,400	736,900
1974	615,000	440,800	19,900	154,300	655,100
1975	568,300	377,200	17,800	173,300	503,300
1976	614,500	433,300	22,800	158,400	657,300
1977	601,400	417,100	15,700	168,600	736,800
1978	576,500	413,100	23,400	140,000	759,000
1979	548,800	396,200	20,200	132,400	814,800
1980	504,400	355,700	16,400	132,300	883,000
1981	500,900	353,100	16,700	131,100	743,100
1982	424,500	304,400	18,800	101,300	684,800
1983	443,500	297,200	21,100	125,200	1,000,000
1984	467,300	321,500	14,200	131,600	942,800
1985	467,500	316,200	10,200	141,100	1,010,000
1986	463,500	334,700	4,100	124,700	1,069,400R
1987	489,700	337,900	5,000	146,800	1,148,000
1988	540,100	358,300	3,500	178,300	1,100,700

NOTE: Exports are included in "All Other"
NOTE: Detail does not necessarily add to totals due to rounding
NOTE: For this Table unbleached kraft folding has been included in the "All Other" domestic data.

TABLE VII

PAPERBOARD PRODUCTION

BY GRADE AND TYPE 1970 - 1988

TONS

YEAR	CONTAINERBOARD - DOMESTIC				BOXBOARD - DOMESTIC		
	Total	Linerboard	Corrugating Material	Container Chip & Filler Board	Total	Folding	Set-Up
Total Paperboard							
1970RS	13,756,600	9,403,100	4,264,000	89,500*	6,303,100	4,144,100	466,500
1971	14,125,500	9,530,800	4,519,700	75,000*	6,195,700	4,101,400	448,000
1972	15,772,300	10,856,500	4,846,600	69,200*	6,531,600	4,420,500	455,100
1973	16,689,700	11,355,800	5,255,100	78,800*	6,741,800	4,682,100	465,300
1974	16,552,300	11,305,500	5,179,300	67,500*	6,377,700	4,405,200	403,600
1975	14,354,300	9,854,300	4,449,300	50,700*	5,644,600	3,817,200	304,500
1976	16,493,100	11,375,900	5,061,400	55,800*	6,540,800	4,690,900	331,400
1977	16,951,300	11,695,800	5,207,900	47,600*	6,313,900	4,528,300	302,500
1978	17,687,000	12,133,700	5,503,100	50,200*	6,457,400	4,678,500	332,700
1979	18,649,600	12,819,600	5,775,900	54,100*	6,443,800	4,695,100	306,000
1980	17,886,700	12,393,100	5,445,600	48,000*	6,126,600	4,463,500	241,500
1981	18,811,700	13,078,500	5,702,000	31,200*	6,192,500	4,563,900	236,000
1982	17,309,400	11,935,500	5,341,800	32,100*	5,820,200	4,313,000	223,600
1983	18,999,800	13,124,700	5,838,100	37,000*	6,230,100	4,615,100	256,300
1984	20,715,400	14,272,500	6,404,200	38,700*	6,498,600	4,839,000	263,800
1985	20,042,200	13,752,900	6,255,400	33,900*	6,412,800	4,805,100	226,600
1986	21,446,000R	14,725,800R	6,689,300R	30,900	6,671,100R	5,056,500R	219,300
1987	23,047,100R	15,992,700R	7,016,900R	37,500	6,874,100R	5,209,700R	242,500R
1988	23,563,200	16,177,300	7,350,900	35,000	7,013,600	5,292,200	278,700
Unbleached Kraft							
1970	9,043,900	9,014,600	3,800	25,500	343,400	343,400	-
1971	9,155,300	9,124,700	1,100	29,500	339,600	339,600	-
1972	10,469,900	10,447,800	-	22,100	389,800	389,800	-
1973	10,951,600	10,939,100	2,300	10,200	454,800	454,800	-
1974	10,754,300	10,739,000	3,800	11,500	469,700	469,700	-
1975	9,586,000	9,565,200	8,700	12,100	463,000	463,000	-
1976	11,023,900	10,993,700	20,100	10,100	577,500	577,500	-
1977	11,283,000	11,269,400	-	13,600	587,900	587,900	-
1978	11,779,700	11,761,600	-	18,100	617,600	617,600	-
1979	12,306,400	12,306,400	-	-	697,800	697,800	-
1980	11,852,300	11,852,300	-	-	680,400	680,400	-
1981	12,653,700	12,653,700	-	-	671,900	671,900	-
1982	11,563,100	11,563,100	-	-	690,600	690,600	-
1983	12,720,600	12,720,600	-	-	710,100	710,100	
1984	13,950,300	13,950,300	-	-	752,400	752,400	-
1985	13,353,300	13,353,300	-	-	821,700	821,700	-
1986	14,173,500R	14,173,500R	-	-	889,400	889,400	-
1987	15,380,100R	15,380,100R	-	-	864,900	864,900	-
1988	15,600,900	15,600,900	-	-	923,600	923,600	-
Semichemical							
1970	3,400,900	-	3,400,900	-	-	-	-
1971	3,579,100	-	3,579,100	-	-	-	-
1972	3,874,300	-	3,874,300	-	-	-	-
1973	4,124,300	-	4,124,300	-	-	-	-
1974	4,006,500	-	4,006,500	-	-	-	-
1975	3,570,600	-	3,570,600	-	-	-	-
1976	3,966,300	-	3,966,300	-	-	-	-
1977	4,128,200	-	4,128,200	-	-	-	-
1978	4,305,300	-	4,305,300	-	-	-	-
1979	4,573,600	-	4,573,600	-	-	-	-
1980	4,398,500	-	4,398,500	-	-	-	-
1981	4,561,200	-	4,561,200	-	-	-	-
1982	4,202,500	-	4,202,500	-	-	-	-
1983	4,532,700	-	4,532,700	-	-	-	-
1984	5,018,800	-	5,018,800	-	-	-	-
1985	4,896,600	-	4,896,600	-	-	-	-
1986	5,163,500R	-	5,163,500R	-	-	-	-
1987	5,343,800R	-	5,343,800R	-	-	-	-
1988	5,527,700	-	5,527,700	-	-	-	-

\- Represents zero

* Reclassification. Balance of chipboard (non-containerboard grades) included in "All Other."

TABLE VII (Cont.)

PAPERBOARD PRODUCTION

BY GRADE AND TYPE 1970 - 1988

TONS

YEAR	BOXBOARD (Cont.) Milk Carton & Food Service	ALL OTHER (Exc. Exports) TOTAL	Gypsum Wallboard Facings	Tube, Can and Drum	Balance of All Other	EXPORTS Total	ALL GRADES Total
Total Paperboard							
1970	1,692,500	3,408,400	775,700	887,200	1,745,500	1,899,400	25,367,500
1971	1,646,300	3,582,400	935,700	925,700	1,721,000	2,115,500	26,019,100
1972	1,656,000	3,947,900	1,016,600	1,065,500	1,865,800	2,231,500	28,483,300
1973	1,594,400	4,102,200	1,050,300	1,145,400	1,906,500	2,015,200	29,548,900
1974	1,568,900	3,814,200	984,100	1,128,500	1,701,600	2,149,400	28,893,600
1975	1,462,900	3,284,100	893,800	907,400	1,482,900	1,453,300	24,736,300
1976	1,518,500	3,672,500	984,500	1,016,600	1,671,400	1,709,200	28,415,600
1977	1,483,100	3,839,100	1,056,800	1,075,900	1,706,400	1,830,400	28,934,700
1978	1,446,200	4,066,800	1,094,000	1,163,000	1,809,800	2,039,900	30,251,100
1979	1,442,700	4,048,100	1,179,900	1,177,200	1,691,000	2,262,600	31,404,100
1980	1,421,600	3,578,200	918,800	1,077,700	1,581,700	3,334,400	30,925,900
1981	1,392,600	3,582,200	887,600	1,114,600	1,580,000	2,621,900	31,208,300
1982	1,283,600	3,261,300	805,200	1,046,200	1,409,900	2,653,800	29,044,700
1983	1,358,700	3,903,800	1,053,800	1,210,800	1,639,200	3,012,000	32,145,700
1984	1,395,800	4,056,800	1,125,200	1,254,800	1,676,800	2,731,300	34,002,100
1985	1,381,100	3,955,500	1,149,400	1,211,400	1,594,700	2,511,300	32,921,800
1986	1,395,300R	4,150,300R	1,220,100	1,266,300	1,663,900R	3,088,000R	35,355,400R
1987	1,421,900R	4,331,200R	1,237,000R	1,333,900R	1,760,300R	3,189,600R	37,442,000R
1988	1,442,700	4,396,400	1,181,500	1,411,300	1,803,600	3,131,400	38,104,600
Unbleached Kraft							
1970	-	470,400	-	175,400	295,000	1,683,400	11,541,100
1971	-	470,900	-	194,500	276,400	1,834,300	11,800,100
1972	-	521,500	-	223,200	298,300	1,887,500	13,268,700
1973	-	559,400	-	226,200	333,200	1,596,700	13,562,500
1974	-	526,200	-	231,000	295,200	1,582,700	13,332,900
1975	-	435,900	-	175,900	260,000	1,057,900	11,542,800
1976	-	483,500	-	217,500	266,000	1,247,300	13,332,200
1977	-	490,300	-	227,800	262,500	1,289,600	13,650,800
1978	-	508,900	-	250,600	258,300	1,466,300	14,372,500
1979	-	500,900	-	267,000	233,900	1,645,900	15,151,000
1980	-	382,700	-	226,400	156,300	2,379,900	15,295,300
1981	-	390,200	-	219,200	171,000	1,886,500	15,602,300
1982	-	349,700	-	192,900	156,800	1,931,500	14,534,900
1983	-	410,900	-	204,300	206,600	2,280,700	16,122,300
1984	-	396,300	-	191,500	204,800	2,086,400	17,185,400
1985	-	362,600	-	164,200	198,400	1,830,000	16,367,600
1986	-	380,800R	-	164,000	216,800R	2,236,600R	17,680,300R
1987	-	350,100R	-	160,600R	189,500	2,302,800R	18,897,900R
1988	-	320,200	-	155,400	164,800	2,295,700	19,140,400
Semichemical							
1970	-	33,200	-	23,700	9,500	84,300	3,518,400
1971	-	17,000	-	14,100	2,900	104,000	3,700,100
1972	-	23,600	-	17,700	5,900	111,700	4,009,600
1973	-	28,600	-	18,300	10,300	107,400	4,260,300
1974	-	23,400	-	17,400	6,000	145,500	4,175,400
1975	-	15,800	-	13,900	1,900	115,400	3,701,800
1976	-	19,400	-	18,200	1,200	119,300	4,105,000
1977	-	14,300	-	14,300	-	121,900	4,264,400
1978	-	14,800	-	14,600	200	119,200	4,439,300
1979	-	17,300	-	10,800	6,500	98,200	4,689,100
1980	-	2,700	-	2,400	300	322,300	4,723,500
1981	-	2,800	-	2,700	100	155,200	4,719,200
1982	-	1,900	-	1,300	600	184,900	4,389,300
1983	-	5,100	-	-	5,100	192,600	4,730,400
1984	-	1,000	-	-	1,000	149,200	5,169,000
1985	-	2,000	-	-	2,000	189,400	5,088,000
1986	-	-R	-	-	-R	212,500	5,376,000
1987	-	-R	-	-	-R	192,500R	5,536,300R
1988	-	-R	-	-	-	136,300	5,664,000

- Represents zero.

TABLE VII (Cont.)

PAPERBOARD PRODUCTION

BY GRADE AND TYPE 1970 - 1987

TONS

YEAR	CONTAINERBOARD - DOMESTIC				BOXBOARD - DOMESTIC		
	Total	Linerboard	Corrugating Material	Container Chip & Filler Board	Total	Folding	Set-Up
Solid Bleached							
1970	118,800	118,800	-	-	2,976,700	1,327,700	
1971	124,400	124,400	-	-	2,958,400	1,354,100	-
1972	129,800	129,800	-	-	3,176,900	1,553,500	-
1973	127,700	127,700	-	-	3,300,000	1,705,700	-
1974	99,400	99,400	-	-	3,223,300	1,654,600	-
1975	81,800	81,800	-	-	2,898,700	1,436,300	-
1976	99,500	99,500	-	-	3,291,800	1,773,400	-
1977	85,000	85,000	-	-	3,056,300	1,573,200	
1978	115,700	115,700	-	-	3,185,700	1,739,500	-
1979	110,900	110,900	-	-	3,131,500	1,688,800	-
1980	96,300	96,300	-	-	2,969,900	1,548,300R	-
1981	100,600	100,600	-	-	3,023,800	1,631,200R	-
1982	93,400	93,400	-	-	2,829,800	1,546,200R	-
1983	115,000	115,000	-	-	3,052,400	1,693,700R	
1984	118,500	118,500	-	-	3,205,400	1,809,600R	-
1985	113,800	113,800	-	-	3,123,100	1,742,000R	-
1986	132,000	132,000	-	-	3,306,600R	1,911,300R	-
1987	134,300	134,300	-	-	3,424,700R	2,002,800R	-
1988	169,800	169,800	-	-	3,459,000R	2,016,300	-
Recycled							
1970	1,193,000	269,700	859,300	64,000*	2,983,000	2,473,000	466,500
1971	1,266,700	281,700	939,500	45,500*	2,897,700	2,407,700	448,000
1972	1,298,300	278,900	972,300	47,100*	2,964,900	2,477,200	455,100
1973	1,486,100	289,000	1,128,500	68,600*	2,987,000	2,521,600	465,300
1974	1,692,100	467,100	1,169,000	56,000*	2,684,700	2,280,900	403,600
1975	1,115,900	207,300	870,000	38,600*	2,283,200	1,977,900	304,500
1976	1,403,400	282,700	1,075,000	45,700*	2,671,500	2,340,000	331,400
1977	1,455,100	341,400	1,079,700	34,000*	2,669,700	2,367,200	302,500
1978	1,486,300	256,400	1,197,800	32,100*	2,654,100	2,321,400	332,700
1979	1,658,700	402,300	1,202,300	54,100*	2,614,500	2,308,500	306,000
1980	1,539,600	444,500	1,047,100	48,000*	2,476,300	2,234,800	241,500
1981	1,496,200	324,200	1,140,800	31,200*	2,496,800	2,260,800	236,000
1982	1,450,400	279,000	1,139,300	32,100*	2,299,800	2,076,200	223,600
1983	1,631,500	289,100	1,305,400	37,000*	2,467,600	2,211,300	256,300
1984	1,627,800	203,700	1,385,400	38,700*	2,540,800	2,277,000	263,800
1985	1,678,500	285,800	1,358,800	33,900*	2,468,000	2,241,400	226,600
1986	1,977,000	420,300	1,525,800	30,900	2,475,100	2,255,800	219,300
1987	2,188,900R	478,300	1,673,100R	37,500	2,584,500R	2,342,000R	242,500
1988	2,264,800	406,600	1,823,200	35,000	2,631,000R	2,352,300R	278,700

- Represents zero

*Reclassification. Balance of chipboard (non-containerboard grades) included in "All Other."

TABLE VII (Cont.)

PAPERBOARD PRODUCTION

BY GRADE AND TYPE 1970 - 1988

TONS

YEAR	BOXBOARD (Cont.) Milk Carton & Food Service	ALL OTHER (Exc. Exports) TOTAL	Gypsum Wallboard Facings	Tube, Can and Drum	Balance of All Other	EXPORTS Total	ALL GRADES TOTAL
Solid Bleached							
1970	1,649,000	117,500	-	-	117,500	114,400	3,327,400
1971	1,604,300	124,000	-	-	124,000	156,500	3,363,300
1972	1,623,400	142,600	-	-	142,600	217,800	3,667,100
1973	1,594,300	133,500	-	-	133,500	280,300	3,841,500
1974	1,568,700	108,900	-	-	108,900	320,200	3,751,800
1975	1,462,100	87,600	-	-	87,600	256,200	3,324,000
1976	1,518,400	122,900	-	-	122,900	306,100	3,820,300
1977	1,483,100	172,300	-	-	172,300	389,400	3,703,000
1978	1,446,200	220,500	-	-	220,500	432,900	3,954,800
1979	1,442,700	234,200	-	-	234,200	496,700	3,973,300
1980	1,421,600	220,000	-	-	220,000	549,600	3,835,800
1981	1,392,600	205,300	-	-	205,300	556,400	3,886,100
1982	1,283,600	196,100	-	-	196,100	524,700	3,644,000
1983	1,358,700	213,000	-	-	213,000	514,400	3,894,800
1984	1,395,800	209,000	-	-	209,000	478,300	4,011,200
1985	1,381,100	208,300	-	-	208,300	465,600	3,910,800
1986	1,395,300R	199,900R	-	-	199,900R	568,700	4,207,200R
1987	1,421,900R	228,400R	-	-	228,400R	618,900	4,406,300R
1988	1,442,700	254,900	-	-	254,900	627,400	4,511,100
Recycled							
1970	43,500	2,787,300	775,700	688,100	1,323,500	17,300	6,980,600
1971	42,000	2,970,500	935,700	717,100	1,317,700	20,700	7,155,600
1972	32,600	3,260,200	1,016,600	824,600	1,419,000	14,500	7,537,900
1973	100	3,380,700	1,050,300	900,900	1,429,500	30,800	7,884,600
1974	200	3,155,700	984,100	880,100	1,291,500	101,000	7,633,500
1975	800	2,744,800	893,800	717,600	1,133,400	23,800	6,167,700
1976	100	3,046,700	984,500	780,900	1,281,300	36,500	7,158,100
1977	-	3,162,200	1,056,800	833,800	1,271,600	29,500	7,316,500
1978	-	3,322,600	1,094,000	897,800	1,330,800	21,500	7,484,500
1979	-	3,295,700	1,179,900	899,400	1,216,400	21,800	7,590,700
1980	-	2,972,800	918,800	848,900	1,205,100	82,600	7,071,300
1981	-	2,983,900	887,600	892,700	1,203,600	23,800	7,000,700
1982	-	2,713,600	805,200	852,000	1,056,400	12,700	6,476,500
1983	-	3,274,800	1,053,800	1,006,500	1,214,500	24,300	7,398,200
1984	-	3,450,500	1,125,200	1,063,300	1,262,000	17,400	7,636,500
1985	-	3,382,600	1,149,400	1,047,200R	1,186,000R	26,300	7,555,400
1986	-	3,569,600	1,220,100	1,102,300R	1,247,200R	70,200	8,091,900
1987	-	3,752,700R	1,237,000R	1,173,300R	1,342,400R	75,400R	8,601,500R
1988	-	3,821,300	1,181,500	1,255,900	1,383,900	72,000	8,789,100

- Represents zero.

TABLE VIII

PAPER AND PAPERBOARD

PRODUCTION, NEW SUPPLY AND NEW SUPPLY/REAL G.N.P.

1961-1988

000 Short Tons	1961	1962	1963	1964	1965	1966	1967
Production - Total	**35,178**	**37,062**	**38,647**	**40,962**	**43,455**	**46,702**	**46,568**
Total Paper	15,821	16,560	17,320	18,112	19,157	20,725	20,926
Total Paperboard	16,727	17,847	18,594	19,954	21,332	23,179	22,819
Unbleached Kraft	5,814	6,316	6,750	7,600	8,301E	9,303E	9,485E
Semichemical	2,017	2,198	2,304	2,481	2,681E	2,969E	3,057E
Bleached Kraft	2,218	2,429	2,539	2,666	2,818E*	3,053E	3,060E
Recycled	6,678	6,905	7,001	7,207	7,532E	7,853E	7,217E
Wet Machine Board	155	146	141	148	144	148	144
Building Paper	1,391	1,429	1,453	1,533	1,574	1,495	1,503
Insulating Board	1,084	1,080	1,139	1,215	1,248	1,155	1,176
New Supply							
Total Paper	**20,928**	**21,781**	**22,475**	**23,748**	**25,197**	**27,323**	**27,231**
Newsprint	7,294	7,460	7,498	8,051	8,510	9,268	9,165
Printing/Writing Papers	7,329	7,772	8,153	8,655	9,348	10,362	10,208
Uncoated Groundwood	933	942	990	1,053	1,069	1,217	1,163
Coated	2,138	2,266	2,398	2,572	2,767	3,039	3,041
Uncoated Free Sheet	3,239	3,431	3,609	3,824	4,198	4,676	4,584
Thin and Cotton Fiber	260	290	287	301	314	351	345
Bleached Bristols	759	843	869	905	1,000	1,079	1,077
Packaging and Ind. Conv. Papers	3,997	4,143	4,258	4,316	4,473	4,610	4,645
Unbleached Kraft	2,767	2,889	3,024	3,038	3,150	3,269	3,233
Other	1,230	1,254	1,234	1,278	1,323	1,341	1,412
Tissue	2,305	2,406	2,566	2,725	2,866	3,083	3,212
Total Paperboard	16,201	17,312	17,941	18,976	20,301	22,063	21,498
Unbleached Kraft	5,417	5,890	6,254	6,843	7,401	8,332	8,317
Semichemical	1,955	2,154	2,221	2,374	2,626	2,905	2,981
Bleached Board	2,186	2,396	2,500	2,621	2,771	2,994	2,999
Recycled	6,643	6,872	6,966	7,138	7,503	7,832	7,201
Construction and Other	2,610	2,644	2,733	2,917	2,972	2,791	2,827
Total All Grades	**39,739**	**41,737**	**43,149**	**45,641**	**48,470**	**52,175**	**51,554**
Paper and Products	20,953	21,794	22,438	23,689	25,130	27,386	27,238
Paperboard and Products	16,083	17,178	17,810	18,871	21,940	21,940	21,369
Total including Products	**39,646**	**41,616**	**42,981**	**45,477**	**48,270**	**52,117**	**51,434**
Real G.N.P.- $ Bil., 1982 Prices	**1,708.7**	**1,799.4**	**1,873.3**	**1,973.3**	**2,087.6**	**2,208.3**	**2,271.3**
Ratio of New Supply to Real GNP							
Total Paper	**12.248**	**12.105**	**11.998**	**12.035**	**12.070**	**12.373**	**11.989**
Newsprint	4.269	4.146	4.003	4.080	4.076	4.197	4.035
Printing/Writing Papers	4.289	4.319	4.352	4.386	4.478	4.692	4.494
Uncoated Groundwood	0.546	0.524	0.528	0.534	0.512	0.551	0.512
Coated	1.251	1.259	1.280	1.303	1.325	1.376	1.339
Uncoated Free Sheet	1.896	1.907	1.927	1.938	2.011	2.117	2.018
Thin and Cotton Fiber	0.152	0.161	0.153	0.153	0.150	0.159	0.152
Bleached Bristols	0.444	0.468	0.464	0.459	0.479	0.489	0.474
Packaging and Ind. Conv. Papers	2.339	2.302	2.273	2.187	2.143	2.088	2.045
Unbleached Kraft	1.619	1.606	1.614	1.540	1.509	1.480	1.423
Other	0.720	0.697	0.659	0.648	0.634	0.607	0.622
Tissue	1.349	1.337	1.370	1.381	1.373	1.396	1.414
Total Paperboard	9.481	9.621	9.577	9.616	9.725	9.991	9.465
Unbleached Kraft	3.170	3.273	3.338	3.468	3.545	3.773	3.662
Semichemical	1.144	1.197	1.186	1.203	1.258	1.315	1.312
Bleached Board	1.279	1.332	1.335	1.328	1.327	1.356	1.320
Recycled	3.888	3.819	3.719	3.617	3.594	3.547	3.170
Construction and Other	1.527	1.469	1.459	1.478	1.424	1.264	1.245
Total All Grades	**23.257**	**23.195**	**23.034**	**23.129**	**23.218**	**23.627**	**22.698**
Paper and Products	12.263	12.112	11.978	12.005	12.038	12.401	11.992
Paperboard and Products	9.412	9.547	9.507	9.563	9.661	9.935	9.408
Total Including Products	**23.202**	**23.128**	**22.944**	**23.046**	**23.122**	**26.600**	**22.645**

* - About 5% of this total is bleached bristols that may also be included in total paper.

NOTE: The new supply data in this table are based upon the shipments data shown in Table I and in part, on the import-export data as reported by the Bureau of the Census and published in the current and earlier issues of the Statistics of Paper and Paperboard. Imports of newsprint, uncoated groundwood paper, coated paper and uncoated free sheet paper have been adjusted to reflect Canadian data on shipments of the grades to the United States. New supply of paper and products and paperboard and products was calculated using the Census import and export totals for all grades. See Tables XXXV and XXXVI for the adjusted import and export data used. E - Estimate

TABLE VIII (Cont.)

PAPER AND PAPERBOARD

PRODUCTION, NEW SUPPLY AND NEW SUPPLY/REAL G.N.P.

1961-1988

000 Short Tons	1968	1969	1970	1971	1972	1973	1974
Production - Total	**50,133**	**52,914**	**51,670**	**53,162**	**57,435**	**59,901**	**59,041**
Total Paper	22,181	23,449	23,351	23,722	25,359	26,797	26,863
Total Paperboard	24,890	26,362	25,367	26,019	28,484	29,550	28,894
Unbleached Kraft	10,762	11,816	11,541	11,800	13,269	13,563	13,333
Semichemical	3,475	3,697	3,518	3,700	4,010	4,260	4,175
Bleached Kraft	3,310*	3,527	3,327	3,363	3,667	3,842	3,752
Recycled	7,343	7,322	6,981	7,156	7,538	7,885	7,634
Wet Machine Board	155	148	139	138	148	149	144
Building Paper	1,574	1,603	1,594	1,837	1,915	1,858	1,845
Insulating Board	1,333	1,352	1,219	1,446	1,529	1,547	1,295
New Supply							
Total Paper	**28,277**	**29,973**	**29,650**	**30,085**	**32,035**	**34,028**	**34,045**
Newsprint	9,307	9,959	9,797	9,773	10,269	10,877	10,955
Printing/Writing Papers	10,502	11,218	11,016	11,296	12,312	13,495	13,571
Uncoated Groundwood	1,219	1,306	1,310	1,324	1,334	1,388	1,460
Coated	3,045	3,240	3,168	3,124	3,412	3,711	3,693
Uncoated Free Sheet	4,769	5,163	5,098	5,413	5,996	6,729	6,794
Thin and Cotton Fiber	351	371	353	338	390	410	401
Bleached Bristols	1,118	1,138	1,087	1,096	1,180	1,257	1,223
Packaging and Ind. Conv. Papers	5,033	5,205	5,139	5,199	5,497	5,640	5,587
Unbleached Kraft	3,494	3,602	3,582	3,598	3,791	3,916	3,951RS
Other	1,539	1,603	1,557	1,601	1,706	1,724	1,636RS
Tissue	3,435	3,591	3,698	3,817	3,957	4,016	4,062
Total Paperboard	23,310	24,514	23,478	23,921	26,261	27,567	26,799
Unbleached Kraft	9,388	10,136	9,858	9,976	11,382	11,972	11,760
Semichemical	3,381	3,645	3,434	3,596	3,898	4,153	4,030
Bleached Board	3,202	3,419	3,213	3,207	3,449	3,561	3,432
Recycled	7,339	7,314	6,973	7,142	7,532	7,881	7,557
Construction and Other	3,073	3,105	2,972	3,467	3,650	3,604	3,301
Total All Grades	**54,660**	**57,592**	**56,100**	**57,473**	**61,946**	**65,199**	**64,125**
Paper and Products	28,317	30,016	29,780	30,389	32,265	34,060	33,740
Paperboard and Products	22,991	24,300	23,216	23,595	26,123	27,340	26,267
Total including Products	**54,351**	**57,421**	**55,968**	**57,451**	**62,038**	**65,003**	**63,308**
Real G.N.P.- $ Bil., 1982 Prices	**2,365.6**	**2,423.3**	**2,416.7**	**2,484.8**	**2,608.5**	**2,744.1**	**2,729.3**
Ratio of New Supply to Real GNP							
Total Paper	**11.953**	**12.369**	**12.269**	**12.107**	**12.281**	**12.400**	**12.474**
Newsprint	3.934	4.110	4.054	3.933	3.937	3.964	3.966
Printing/Writing Papers	4.439	4.629	4.558	4.546	4.720	4.918	4.972
Uncoated Groundwood	0.515	0.539	0.542	0.533	0.511	0.506	0.535
Coated	1.287	1.337	1.311	1.257	1.308	1.352	1.353
Uncoated Free Sheet	2.016	2.131	2.109	2.179	2.299	2.452	2.489
Thin and Cotton Fiber	0.148	0.153	0.146	0.136	0.150	0.149	0.147
Bleached Bristols	0.473	0.470	0.450	0.441	0.452	0.458	0.448
Packaging and Ind. Conv. Papers	2.128	2.148	2.126	2.092	2.107	2.055	2.047
Unbleached Kraft	1.477	1.486	1.482	1.448	1.453	1.427	1.448
Other	0.651	0.661	0.644	0.644	0.654	0.628	0.599
Tissue	1.452	1.482	1.530	1.536	1.517	1.464	1.488
Total Paperboard	9.854	10.116	9.715	9.627	10.067	10.046	9.812
Unbleached Kraft	3.969	4.183	4.079	4.015	4.363	4.363	4.309
Semichemical	1.429	1.504	1.421	1.447	1.494	1.513	1.477
Bleached Board	1.354	1.411	1.329	1.291	1.322	1.298	1.257
Recycled	3.102	3.018	2.885	2.874	2.887	2.872	2.769
Construction and Other	1.299	1.281	1.230	1.395	1.399	1.313	1.209
Total All Grades	**23.106**	**23.766**	**23.213**	**23.130**	**23.748**	**23.760**	**23.495**
Paper and Products	11.970	12.386	12.322	12.230	12.369	12.412	12.362
Paperboard and Products	9.706	10.028	9.607	9.496	10.014	9.963	9.624
Total Including Products	**22.976**	**23.695**	**23.159**	**23.121**	**23.783**	**23.688**	**23.196**

* - About 5% of this total is bleached bristols that may also be included in total paper
E - Estimate

TABLE VIII (Cont.)

PAPER AND PAPERBOARD

PRODUCTION, NEW SUPPLY AND NEW SUPPLY/REAL G.N.P.

1961-1988

000 Short Tons	1975	1976	1977	1978	1979	1980	1981R
Production - Total	**50,976**	**58,327**	**60,040**	**62,048**	**64,345**	**63,600**	**64,259**
Total Paper	23,260	26,577	27,721	28,320	29,666	30,116	30,901
Total Paperboard	24,737	28,415	28,935	30,252	31,404	30,926	31,208
Unbleached Kraft	11,543	13,332	13,651	14,373	15,151	15,295	15,602
Semichemical	3,702	4,105	4,264	4,439	4,689	4,724	4,719
Bleached Kraft	3,324	3,820	3,703	3,955	3,973	3,836	3,886
Recycled	6,168	7,158	7,317	7,485	7,591	7,071	7,001
Wet Machine Board	115	130	129	136	144	138	160
Building Paper	1,615	1,771	1,852	1,915	1,868	1,369	1,144
Insulating Board	1,249	1,434	1,403	1,425	1,263	1,051	846
New Supply							
Total Paper	28,264	32,513	34,163	35,992	37,449	37,125	37,547
Newsprint	9,048	9,917	10,081	10,788	11,159	11,377	11,694
Printing/Writing Papers	10,934	13,281	14,236	15,244	16,079	16,123	16,139
Uncoated Groundwood	1,317	1,588	1,794	1,907	2,123	2,086	2,001
Coated	3,037	3,842	4,223	4,540	4,588	4,644	4,843
Uncoated Free Sheet	5,295	6,439	6,793	7,230	7,891	8,015	7,870
Thin and Cotton Fiber	334	363	384	435	468	415	439
Bleached Bristols	950	1,049	1,087	1,132	1,010	964	986
Packaging and Ind. Conv. Papers	4,334	5,151	5,577	5,754	5,701	5,243	5,241
Unbleached Kraft	3,070	3,598	3,720	3,884	3,935	3,707	3,654
Other	1,264	1,553	1,857*	1,870*	1,766	1,536	1,587
Tissue	3,948	4,164	4,269	4,206	4,510	4,382	4,473
Total Paperboard	23,292	26,720	27,132	28,311	29,225	27,689	28,717
Unbleached Kraft	10,485	12,089	12,376	12,938	13,532	12,958	13,764
Semichemical	3,587	3,986	4,142	4,320	4,624	4,433	4,616
Bleached Board	3,068	3,514	3,314	3,522	3,477	3,287	3,330
Recycled	6,152	7,131	7,300	7,531	7,592	7,011	7,007
Construction and Other	3,001	3,367	3,464	3,737	3,598	2,968	2,468
Total All Grades	**54,557**	**62,600**	**64,759**	**68,040**	**70,272**	**67,782**	**68,732**
Paper and Products	28,317	32,509	34,099	36,177	37,383	37,028	37,333
Paperboard and Products	22,792	26,137	26,678	27,873	28,815	27,172	28,156
Total Including Products	**54,110**	**62,013**	**64,241**	**67,787**	**69,796**	**67,168**	**67,957**
Real G.N.P.- $ Bil.,1982 Prices	**2,695.0**	**2,826.7**	**2,958.6**	**3,115.2**	**3,192.4**	**3,187.1**	**3,248.7**
Ratio of New Supply to Real G.N.P							
Total Paper	10.488	11.502	11.547	11.554	11.731	11.649	11.558
Newsprint	3.357	3.508	3.407	3.463	3.495	3.570	3.600
Printing/Writing Papers	4.057	4.698	4.812	4.893	5.037	5.059	4.968
Uncoated Groundwood	0.489	0.562	0.591	0.612	0.665	0.655	0.616
Coated	1.127	1.359	1.427	1.457	1.437	1.457	1.491
Uncoated Free Sheet	1.965	2.278	2.296	2.321	2.472	2.515	2.423
Thin and Cotton Fiber	0.124	0.128	0.130	0.140	0.147	0.130	0.135
Bleached Bristols	0.353	0.371	0.367	0.363	0.316	0.302	0.304
Packaging and Ind. Conv. Papers	1.608	1.822	1.885	1.847	1.786	1.645	1.613
Unbleached Kraft	1.139	1.273	1.257	1.247	1.233	1.163	1.125
Other	0.469	0.549	0.628	0.600	0.553	0.482	0.489
Tissue	1.465	1.473	1.443	1.350	1.413	1.375	1.377
Total Paperboard	8.643	9.453	9.171	9.088	9.155	8.688	8.840
Unbleached Kraft	3.891	4.277	4.183	4.153	4.239	4.066	4.237
Semichemical	1.331	1.410	1.400	1.387	1.448	1.391	1.421
Bleached Board	1.138	1.243	1.120	1.131	1.089	1.031	1.025
Recycled	2.283	2.523	2.467	2.418	2.378	2.200	2.157
Construction and Other	1.114	1.191	1.171	1.200	1.127	0.931	0.760
Total All Grades	**20.244**	**22.146**	**21.888**	**21.841**	**22.012**	**21.268**	**21.157**
Paper and Products	10.507	11.501	11.525	11.613	11.710	11.618	11.492
Paperboard and Products	8.457	9.247	9.017	8.947	9.026	8.525	8.667
Total Including Products	**20.078**	**21.938**	**21.713**	**21.760**	**21.863**	**21.075**	**20.918**

NOTE: The new supply data in this table are based upon the shipments data shown in Table I and the import-export data as reported by the Bureau of the Census and published in the current and earlier issues of the Statistics of Paper and Paperboard. Imports of newsprint, uncoated groundwood paper, coated paper and uncoated free sheet paper have been adjusted to reflect Canadian data on shipments of these grades to the United States. New supply of paper and products and of paperboard and products was calculated using Census import and export totals for all grades. See Tables XXXV and XXXVI for the adjusted import and export data used.

* Data overstated by about 10%, as indicated by revision of 1979 data in 1980 report.

TABLE VIII (Cont.)

PAPER AND PAPERBOARD

PRODUCTION, NEW SUPPLY AND NEW SUPPLY/REAL G.N.P.

1961-1988

000 Short Tons	1982	1983	1984	1985	1986R	1987R	1988P
Production - Total	**60,958**	**66,761**	**70,268**	**68,658**	**72,475**	**75,908**	**77,993**
Total Paper	30,252	32,816	34,466	34,036	35,520	36,876	38,298
Total Paperboard	29,044	32,145	34,002	32,922	35,355	37,442	38,105
Unbleached Kraft	14,535	16,122	17,185	16,368	17,680	18,898	19,140
Semichemical	4,389	4,730	5,169	5,088	5,376	5,536	5,664
Bleached Kraft	3,644	3,895	4,011	3,911	4,207	4,406	4,511
Recycled	6,476	7,398	7,637	7,555	8,092	8,601	8,789
Wet Machine Board	129	140	140	130	130	120	120
Building Paper	798	760	700	680	600	600	600
Insulating Board	735	900	960	890	870	870	870
New Supply							
Total Paper	36,617	40,229	43,576	43,518	45,276	47,445	49,034
Newsprint	10,948	11,597	12,722	12,838	12,994	13,707	13,670
Printing/Writing Papers	16,234	18,508	20,473	20,569	22,066	23,447	24,825
Uncoated Groundwood	2,068	2,414	2,833	2,871	3,026	3,180	3,356
Coated	4,979	5,799	6,592	6,289	6,686	7,433	8,060
Uncoated Free Sheet	7,896	8,889	9,546	10,005	10,836	11,331	11,810
Thin and Cotton Fiber	394	423	478	413	449	425	402
Bleached Bristols	897	983	1,024	991	1,069	1,078	1,198
Packaging and ind. Conv. Papers	5,014	5,340	5,447	5,133	5,076	4,971	5,044
Unbleached Kraft	3,347	3,431	3,455	3,242	3,153	2,919	2,852
Other	1,667	1,909	1,992	1,891	1,923	2,052	2,192
Tissue	4,421	4,784	4,934	4,978	5,140	5,321	5,495
Total Paperboard	26,504	29,301	31,515	30,595	32,540	34,616	35,317
Unbleached Kraft	12,639	13,890	15,169	14,589	15,513	16,676	16,930
Semichemical	4,251	4,607	5,124	4,964	5,263	5,476	5,673
Bleached Board	3,119	3,380	3,533	3,445	3,639	3,787	3,884
Recycled	6,495	7,424	7,689	7,597	8,126	8,677	8,830
Construction and Other	2,025	2,210	2,222	2,048	1,845	1,792	1,781
Total All Grades	**65,146**	**71,740**	**77,313**	**76,161**	**79,661**	**83,853**	**86,131**
Paper and Products	36,569	40,045	43,667	43,916	45,683	47,787	49,237
Paperboard and Products	26,143	28,925	31,068	30,144	32,196	33,862	34,394
Total Including Products	**64,737**	**71,180**	**76,957**	**76,108**	**79,724**	**83,441**	**85,412**
Real G.N.P.- $ Bil., 1982 Prices	**3,166.0**	**3,279.1**	**3,501.4**	**3,618.7**	**3,717.9**	**3,853.7**	**4,024.4**
Ratio of New Supply to Real G.N.P.							
Total Paper	11.566	12.268	12.445	12.026	12.178	12.312	12.184
Newsprint	3.458	3.537	3.633	3.548	3.495	3.557	3.397
Printing/Writing Papers	5.127	5.644	5.847	5.684	5.935	6.084	6.169
Uncoated Groundwood	0.653	0.736	0.809	0.793	0.814	0.825	0.834
Coated	1.573	1.768	1.883	1.738	1.798	1.929	2.003
Uncoated Free Sheet	2.494	2.711	2.726	2.765	2.915	2.940	2.935
Thin and Cotton Fiber	0.125	0.129	0.137	0.114	0.121	0.110	0.100
Bleached Bristols	0.283	0.300	0.292	0.274	0.288	0.280	0.298
Packaging and Ind. Conv. Papers	1.584	1.628	1.556	1.418	1.365	1.290	1.253
Unbleached Kraft	1.057	1.046	0.987	0.896	0.848	0.757	0.709
Other	0.527	0.582	0.569	0.523	0.517	0.532	0.545
Tissue	1.396	1.459	1.409	1.376	1.383	1.381	1.365
Total Paperboard	8.371	8.936	9.001	8.455	8.752	8.983	8.776
Unbleached Kraft	3.992	4.236	4.332	4.032	4.172	4.327	4.207
Semichemical	1.343	1.405	1.463	1.372	1.415	1.421	1.410
Bleached Board	0.985	1.031	1.009	0.952	0.979	0.983	0.965
Recycled	2.051	2.264	2.196	2.099	2.186	2.252	2.194
Construction and Other	0.640	0.674	0.635	0.566	0.496	0.465	0.442
Total All Grades	**20.577**	**21.878**	**22.080**	**21.046**	**21.426**	**21.759**	**21.402**
Paper and Products	11.551	12.212	12.471	12.136	12.287	12.400	12.235
Paperboard and Products	8.258	8.821	8.873	8.330	8.660	8.787	8.546
Total Including Products	**20.448**	**21.707**	**21.979**	**21.032**	**21.443**	**21.652**	**21.223**

* Data overstated by about 10%, as indicated by revision of 1979 data in 1980 report
R - Revised P - Preliminary E - Estimated by API

TABLE IX

UNITED STATES CAPACITY TO PRODUCE PAPER AND BOARD

1976 - 1991

(THOUSANDS OF TONS)

	1976	1977	1978	1979	1980	1981	1982	1983
TOTAL PAPER AND BOARD	**65,673**	**66,459**	**67,419**	**69,033**	**70,716**	**72,255**	**73,118**	**74,017**
Total Paper	**29,210**	**29,831**	**30,460**	**31,179**	**32,659**	**33,706**	**34,665**	**35,675**
Newsprint #	4,014	4,069	4,104	4,199	4,836	5,457	5,654	5,774
Total Printing, Writing & Related	14,494	14,975	15,566	16,057	16,798	17,302	17,809	18,633
Groundwood Uncoated #	1,309	1,367	1,453	1,541	1,624	1,625	1,655	1,710
Coated Papers - Total	4,202	4,397	4,546	4,822	4,984	5,292	5,516	5,995
Coated Groundwood	2,299	2,408	2,450	2,554	2,762	3,047	3,242	3,522
Coated Free Sheet	1,903	1,989	2,096	2,268	2,222	2,245	2,274	2,473
Uncoated Free Sheet	7,319	7,465	7,847	8,152	8,645	8,828	9,039	9,354
Cotton Fiber	142	133	131	134	139	147	161	162
Thin	358	402	395	393	382	374	369	347
Solid Bleached Bristols	1,165	1,213	1,194	1,016	1,024	1,035	1,069	1,065
Total Packaging & Ind. Conv.	6,202	6,242	6,146	6,053	6,072	5,913	6,076	6,078
Unbleached Kraft	4,218	4,317	4,223	4,098	4,110	3,961	4,091	4,065
Bleached Pkg. & Ind. Conv.	1,128	1,069	1,041	1,105	1,095	1,083	1,080	1,119
Specialty Pkg	N.A.	N.A.	N.A.	N.A.	N.A.	554	553	569
Bleached Pkg.	N.A.	N.A.	N.A.	N.A.	N.A.	529	527	550
Special Industrial	841	856	856	883	850	870	906	894
Tissue	4,500	4,545	4,644	4,870	4,954	5,035	5,125	5,190
Total Paperboard	**32,097**	**32,173**	**32,631**	**33,436**	**33,709**	**34,466**	**35,421**	**35,451**
Total Unbleached Kraft Packaging & Industrial Converting	14,568	14,793	15,054	15,546	15,967	16,738	17,402	17,511
Linerboard	13,448	13,586	13,864	14,199	14,586	15,372	16,032	16,217
Folding Boxboard	595	645	650	827	852	799	860	800
Other	525	561	540	520	529	567	509	493
Total Bleached Packaging Paperboard	3,998	4,020	4,197	4,268	4,180	4,141	4,123	4,129
Folding Boxboard	1,915	1,930	1,996	2,061	1,954	1,966	1,988	1,992
Milk Carton & Food Service	1,854	1,824	1,899	1,877	1,865	1,839	1,812	1,812
Linerboard	101	97	122	137	116	106	104	111
Other	128	170	179	193	246	230	219	215
Semichemical Paperboard	4,758	4,661	4,739	4,864	4,946	4,988	5,207	5,119
Total Recycled Paperboard	8,774	8,699	8,642	8,757	8,617	8,599	8,690	8,692
Linerboard	361	392	361	432	509	463	379	395
Corrugating Medium	1,476	1,337	1,343	1,392	1,330	1,349	1,478	1,427
Container Chip & Filler	398	403	311	287	283	309	273	247
Folding	2,705	2,674	2,568	2,615	2,593	2,633	2,676	2,671
Set-Up	450	443	418	404	349	335	331	324
Gypsum Wall Board Facing	1,046	1,112	1,238	1,273	1,238	1,251	1,255	1,217
Other	2,337	2,337	2,403	2,355	2,313	2,260	2,298	2,412
Total Paper and Paperboard	**61,307**	**62,004**	**63,091**	**64,615**	**66,368**	**68,172**	**70,086**	**71,126**
Total Wet Machine Board	**216**	**180**	**145**	**154**	**163**	**157**	**160**	**173**
Total Construction Paper & Board	**4,149**	**4,276**	**4,182**	**4,265**	**4,184**	**3,926**	**2,872**	**2,718**
Construction Paper	2,317	2,364	2,352	2,380	2,345	2,111	1,306	1,234
Insulating Board	1,832	1,912	1,830	1,885	1,839	1,815	1,566	1,484
Total Hard Pressed Board ###	**2,511**	**2,536##**	**2,525##**	**2,556##**	**2,556##**	**N.A.**	**N.A.**	**N.A.**

SOURCE: American Paper Institute, Paper, Paperboard and Wood Pulp Capacity Survey, various issues to December 1988.

N.A. - Not Available

* - Average basis weight changed from 32 lbs. to 30 lbs. during 1975.

** - Reflects shift of about 215,000 tons of bleached kraft envelope paper to uncoated free sheet in 1975 and later years.

- Not directly comparable with shipments data in Table II in 1972-1977 because of redefinition of certain grades from uncoated groundwood paper to newsprint.

- As reported in 1976 Capacity Survey.

- Hard Pressed Board not included in Total Paper and Board.

TABLE IX (Cont.)

UNITED STATES CAPACITY TO PRODUCE PAPER AND BOARD

1976 - 1991

(THOUSANDS OF TONS)

	1984	1985	1986	1987R	1988F	1989F	1990F	1991F
TOTAL PAPER AND BOARD	**75,943**	**76,622**	**77,921**	**80,341**	**82,435**	**84,685**	**87,553**	**90,701**
Total Paper	**37,106**	**37,581**	**38,014**	**39,080**	**40,199**	**41,439**	**43,106**	**44,631**
Newsprint	5,851	5,788	5,804	6,006	6,116	6,301	6,877	7,117
Total Printing, Writing & Related	19,890	20,463	20,980	22,077	23,064	23,971	24,838	25,887
Groundwood Uncoated	1,704	1,710	1,685	1,653	1,696	1,762	1,765	1,875
Coated Papers-Total	6,557	6,665	6,743	7,365	7,832	8,209	8,678	9,150
Crated Groundwood	3,766	3,820	3,799	4,136	4,376	4,478	4,659	4,704
Coated Free Sheet	2,791	2,845	2,944	3,229	3,456	3,731	4,019	4,446
Uncoated Free Sheet	10,058	10,515	11,023	11,493	11,897	12,352	12,721	13,180
Cotton Fiber	181	187	192	198	200	201	201	201
Thin	338	326	312	290	277	279	279	279
Solid Bleached Bristols	1,051	1,059	1,025	1,079	1,161	1,168	1,193	1,202
Total Packaging & Ind. Conv.	6,088	5,985	5,758	5,492	5,394	5,410	5,445	5,531
Unbleached Kraft	3,972	3,808	3,579	3,295	3,143	3,145	3,184	3,216
Bleached Pkg. & Ind. Conv	1,148	1,104	1,092	1,066	1,112	1,119	1,101	1,146
Specialty Pkg.	599	519	554	565	585	590	618	667
Bleached Pkg.	549	585	538	501	527	529	483	479
Special Industrial	968	1,074	1,086	1,131	1,138	1,146	1,160	1,169
Tissue	5,276	5,345	5,472	5,505	5,626	5,757	5,946	6,096
Total Paperboard	**35,992**	**36,720**	**37,763**	**39,106**	**40,116**	**41,128**	**42,321**	**43,933**
Total Unbleached Kraft Packaging & Industrial Converting	17,834	18,144	18,622	19,421	20,174	20,675	21,439	22,597
Linerboard	16,565	16,739	17,175	17,949	18,613	19,084	19,796	20,783
Folding Boxboard	792	905	946	1,000	1,078	1,104	1,153	1,322
Other	477	500	501	473	483	487	490	491
Total Bleached Packaging Paperboard	4,185	4,370	4,576	4,735	4,679	4,715	4,815	4,985
Folding Boxboard	2,095	2,223	2,341	2,364	2,282	2,292	2,350	2,422
Milk Carton & Food Service	1,771	1,843	1,926	2,031	2,051	2,078	2,107	2,201
Linerboard	119	131	135	148	167	168	181	186
Other	200	173	175	191	179	177	176	176
Semichemical Paperboard	5,252	5,411	5,557	5,682	5,796	5,987	6,160	6,369
Total Recycled Paperboard	8,722	8,795	9,008	9,267	9,468	9,752	9,907	9,983
Linerboard	393	422	467	515	563	594	615	638
Corrugating Medium	1,524	1,523	1,580	1,685	1,850	2,038	2,110	2,123
Container Chip & Filler	228	53#	42	40	44	44	44	44
Folding	2,626	2,640	2,662	2,661	2,571	2,562	2,587	2,597
Set-Up	296	289	272	275	267	268	270	271
Gypsum Wall Board Facing	1,249	1,265	1,349	1,386	1,387	1,397	1,404	1,404
Other	2,405	2,603#	2,637	2,706	2,785	2,848	2,876	2,905
Total Paper and Paperboard	**73,098**	**74,301**	**75,777**	**78,186**	**80,315**	**82,568**	**85,427**	**88,564**
Total Wet Machine Board	**170**	**160**	**154**	**153**	**127**	**124**	**124**	**124**
Total Construction Paper & Board	**2,676**	**2,161**	**1,990**	**2,001**	**1,993**	**1,993**	**2,002**	**2,013**
Construction Paper	1,227	937	834	822	819	819	828	839
Insulating Board	1,449	1,224	1,156	1,179	1,174	1,174	1,174	1,174

SOURCE: American Paper Institute, Paper, Paperboard and Wood Pulp Capacity Survey various issues to December 1988.

F - Forecast as reported in December 1988 Capacity Survey

N.A. - Not Available

- Reflects shift of 160,000 on non-containerboard grade to "other" recycled paperboard.

TABLE X

WOOD PULP CAPACITY

1976 - 1991

(Thousands of Tons)

	1976	1977	1978	1979	1980	1981	1982	1983
TOTAL ALL GRADES (1)	**50,547**	**51,849**	**51,714**	**53,636**	**55,214**	**56,831**	**57,638**	**57,590**
Dissolving and Special Alpha	1,571	1,648	1,573	1,551	1,590	1,598	1,606	1,525
Chemical Paper Grades	38,292	39,174	39,997	40,897	41,893	43,143	43,971	44,284
Sulfite, Paper Grades Total	2,417	2,252	2,095	2,004	1,909	1,855	1,780	1,788
Bleached	1,972	1,812	1,675	1,595	1,512	1,464	1,383	1,404
Unbleached	445	440	420	409	397	391	397	385
Sulfate and Soda Total	35,875	36,922	37,903	38,893	39,983	41,288	42,191	42,495
Bleached Total	15,042	15,822	18,171	18,969	19,695	20,316	20,757	21,290
Hardwood	7,208	7,310	7,729	8,072	8,356	8,559	8,705	9,179
Softwood	7,835	8,512	10,442	10,897	11,339	11,757	12,052	12,111
Semi-Bleached Total	1,539	1,547	(2)	(2)	(2)	(2)	(2)	
Hardwood	19	12						
Softwood	1,520	1,536						
Unbleached	19,293	19,552	19,732	19,923	20,288	20,972	21,435	21,206
Semichemical Total	4,402	4,514	4,572	4,553	4,601	4,597	4,734	4,490
Bleached	345	345	339	336	384	350	356	367
Unbleached	4,057	4,169	4,234	4,217	4,217	4,247	4,378	4,122
Mechanical Total (Groundwood)	6,204	6,442	6,507	6,572	7,069	7,434	7,293	7,261
For Paper and Board	4,416	4,502	4,580	4,573	5,070	5,494	5,780	5,814
Stone Groundwood	3,540	3,397	3,328	3,255	3,212	3,239	3,260	3,146
Refiner	543	538	533	507	486	489	472	480
Thermo-Mechanical	333	567	719	811	1,371	1,766	2,048	2,188
For Other Paper and Board	1,788	1,939	1,926	1,999	1,999	1,940	1,513	1,447
Stone and Refiner	537	525	529	594	647	651	628	576
Defibrated and Exploded	1,251E	1,414	1,397	1,406	1,352	1,289	885	871
Screenings	78	71	65	63	61	58	34	31
MARKET PULP								
Total All Grades	**5,407**	**5,467**	**5,746**	**6,334**	**6,801**	**6,972**	**7,079**	**7,414**
Dissolving	1,421	1,611	1,573	1,551	1,576	1,579	1,598	1,519
Chemical Paper Grades	3.986	3,856	4,069	4,632	5,129	5,375	5,469	5,881
Sulfate	3,411	3,444	3,760	4,332	4,761	5,034	5,182	5,529
Bl. and Semi-Bleached	3,194	3,280	3,653	4,228	4,589	4,867	5,040	5,372
Unbleached	218	164	107	104	172	167	142	157
Sulfite	459	301	309	350	369	341	288	352
All Other	116	111	104	101	96	17	12	14

\- No Data Available
(1) Excludes defibrated and exploded wood pulp for hard pressed board as folows: 2,500 2,500 N.A. N.A. N.A. N.A. N.A. N.A.
(2) Semi-Bleached Total included with Bleached.
E - Estimate
N.A.- Not available

TABLE X (Cont.)

WOOD PULP CAPACITY

1976 - 1991

(Thousands of Tons)

	1984	1985	1986	1987R	1988F	1989F	1990F	1991F
TOTAL ALL GRADES (1)	**59,001**	**59,615**	**60,686**	**61,172**	**62,676**	**63,860**	**65,657**	**67,754**
Dissolving and Special Alpha	1,487	1,454	1,399	1,389	1,401	1,402	1,402	1,402
Chemical Paper Grades	45,479	46,544	47,655	48,825	50,082	50,934	52,206	53,968
Sulfite, Paper Grades Total	1,750	1,738	1,703	1,646	1,589	1,592	1,593	1,591
Bleached	1,445	1,482	1,502	1,460	1,407	1,410	1,411	1,409
Unbleached	305	256	201	186	182	182	182	182
Sulfate and Soda Total	43,729	44,806	45,952	47,179	48,492	49,342	50,613	52,377
Bleached and Semi-Bleached - Total	22,357	23,624	24,571	25,446	26,208	26,781	27,592	28,528
Hardwood	9,867	10,750	11,402	11,823	12,269	12,679	13,177	13,629
Softwood	12,490	12,874	13,169	13,623	13,939	14,102	14,415	14,899
Unbleached	21,372	21,182	21,381	21,733	22,285	22,561	23,022	23,849
Semichemical Total	4,625	4,650	4,631	4,697	4,774	4,875	4,996	5,072
Bleached	381	395	404	408	406	406	406	406
Unbleached	4,244	4,255	4,227	4,289	4,368	4,469	4,590	4,666
Mechanical Total (Groundwood)	7,380	6,938	6,994	7,160	7,317	7,546	7,980	8,275
For Paper and Board	6,122	5,964	6,058	6,256	6,415	6,644	7,048	7,308
Stone Groundwood	3,168	3,006	2,996	2,942	3,011	3,104	3,243	3,269
Refiner	501	459	402	348	335	334	334	370
Thermo-Mechanical	2,453	2,499	2,660	2,966	3,068	3,207	3,471	3,669
For Other Paper and Board	1,259	974	936	904	902	902	932	967
Stone and Refiner	469	269	269	275	279	279	279	279
Defibrated and Exploded	789	705	667	629	623	623	654	688
Screenings	29	29	7	6	4	4	4	4
MARKET PULP								
Total All Grades	7,530	7,989	8,039	8,505	8,878	8,940	9,188	9,403
Dissolving	1,487	1,446	1,395	1,388	1,401	1,402	1,402	1,402
Chemical Paper Grades	6,029	6,529	6,630	7,103	7,462	7,524	7,772	7,988
Sulfate	5,727	6,227	6,343	6,819	7,178	7,239	7,487	7,703
Bl. and Semi-Bleached	5,582	6,083	6,198	6,651	6,995	7,058	7,307	7,523
Unbleached	145	144	145	168	183	181	180	180
Sulfite	302	302	287	284	285	285	285	285
All Other	14	14	14	14	14	14	14	14

F - Forecast

TABLE XI

IMPORTS

WOOD PULP, PAPER, PAPERBOARD AND PRODUCTS

1983 - 1988

	1983		1984		1985	
	Tons	$ 000	Tons	$ 000	Tons	$ 000
TOTAL ALL GRADES	13,180,285	5,650,120	15,675,105	7,180,256	16,074,779	7,457,087
WOOD PULP, ALL GRADES, TOTAL	4,093,436	1,472,478	4,490,081	1,844,768	4,465,746	1,520,907
Dissolving and Special Alpha	192,317	72,280	161,066	62,186	175,011	58,956
Sulphite, Paper Grades, Total	305,620	124,299	459,810	190,689	424,510	159,609
Bleached	254,546	106,116	395,547	165,435	313,592	125,268
Unbleached	51,074	18,183	64,263	25,254	110,918	34,341
Sulphate, Paper Grades, Total	3,400,659	1,228,776	3,562,732	1,501,513	3,679,000	1,251,781
Bleached	3,197,550	1,163,186	3,383,516	1,433,377	3,496,344	1,193,242
Semi-Bleached	66,996	25,124	46,277	20,601	57,248	19,542
Unbleached	136,113	40,466	132,939	47,535	125,408	38,997
Soda	**	**	**	**	**	**
Groundwood	184,342	43,545	257,543	70,360	111,501	28,662
Other*	10,498	3,577	48,930	20,018	75,724	21,899
WASTE PAPER	100,410	10,537	109,712	11,692	87,413	10,160
PAPER, PAPERBOARD AND PRODUCTS, TOTAL	8,986,439	4,018,855	11,075,312	5,323,796	11,521,619	5,697,802
PAPER, PAPERBOARD AND OTHER, TOTAL	8,834,568	3,582,292	10,855,990	4,782,630	11,238,094	5,074,482
PAPER, TOTAL♦	8,189,498	3,428,868	10,113,718	4,592,641	10,637,428	4,906,882
Newsprint	6,919,348	2,757,524	7,893,877	3,299,570	8,496,568	3,638,716
Printing & Writing Paper, Total	1,151,011	587,426	2,044,045	1,170,144	1,912,867	1,116,225
Groundwood, Uncoated	732,237	331,017	1,090,049	548,791	1,027,211	530,619
Coated and Impregnated Paper	162,441	101,289	428,274	295,844	496,072	363,885
Uncoated Free Sheet	235,605	135,350	478,628	285,212	364,848	198,432
Uncoated Book	154,147	88,632	254,926	156,296	200,927	106,586
Writing Papers	81,458	46,718	223,702	128,916	163,921	91,846
Other Fine Paper	-	-	-	-	-	-
Thin Paper	20,258	19,213	46,427	39,513	23,712	22,276
Bristols	471	557	667	784	1,024	1,043
Packaging & Industrial Paper, Total	107,521	75,694	145,484	102,565	172,003	116,390
Unbleached Kraft	2,013	17,454	42,854	19,568	63,604	23,976
Other Packaging & Converting	51,982	37,372	83,860	53,927	85,052	56,429
Glassine & Greaseproof	8,159	11,857	11,659	16,506	15,027	20,881
Vegetable Parchment	330	602	696	1,000	1,165	1,700
Special Industrial Paper	5,038	8,408	6,415	11,564	7,154	13,405
Tissue Paper	11,617	8,225	30,312	20,362	55,990	35,551
PAPERBOARD, TOTAL	167,818	46,160	242,616	73,892	184,201	55,875
Test or Containerboard	48,119	13,042	70,028	22,218	50,975	16,848
Semichemical Corrugating	69,564	14,509	103,968	26,098	65,203	13,706
Other Paperboard	50,136	18,609	68,620	25,576	68,023	25,321
WET MACHINE BOARD	3,584	2,422	2,826	2,017	3,270	2,585
CONSTRUCTION PAPER & BOARD, TOTAL	473,667	104,842	496,830	114,080	413,196	109,140
Building Paper	393,148	77,004	388,790	77,075	289,195R	68,691
Insulating and Other Building Boar	80,519	27,837	108,040	37,005	124,001R	40,449
PAPER AND PAPERBOARD PRODUCTS, TOTAL♦	151,872	436,563	219,322	541,166	283,526	623,320
PAPER PRODUCTS, TOTAL♦	124,816	373,966	184,522	472,998	258,934	572,316
Printing & Book Paper♦	27,260	119,636	36,947	152,006	37,226	148,241
Writing & Related Paper	82,184	228,078	118,865	275,709	154,727	340,143
Special Industrial Paper	9,032	18,428	12,964	28,709	16,773	36,407
Tissue Paper	6,340	7,824	15,746	16,574	50,208	47,534
PAPERBOARD PRODUCTS, TOTAL	27,055	62,597	34,800	68,168	24,592	51,004

* Includes Mixtures and Screenings

** Included with Sulphate Pulp Imports

♦ Coated and Impregnated Printing Papers included in Primary Coated Papers from 1977 on, in earlier years they were in Paper Products.

NOTE: Dollar figures for the value of shipments for which no tonnage figures were given are shown below. They are not included in the subtotals, but are in the Total All grades: ($ 000)

	$148,251	$195,737	$228,219

TABLE XI (Cont.)

IMPORTS

WOOD PULP, PAPER, PAPERBOARD AND PRODUCTS

1983 - 1988

	1986		1987		1988	
	Tons	$ 000	Tons	$ 000	Tons	$ 000
TOTAL ALL GRADES	16,617,525	7,860,748	17,814,681	9,217,766	18,309,754	10,870,519
WOOD PULP, ALL GRADES, TOTAL	4,581,760	1,601,378	4,850,238	2,069,389	5,038,158	2,663,424
Dissolving and Special Alpha	254,699	87,725	197,531	80,701	248,456	131,587
Sulphite, Paper Grades, Total	482,205	168,299	508,560	203,891	385,081	201,455
Bleached	350,520	129,490	352,543	158,234	331,899	179,673
Unbleached	131,685	38,809	156,017	45,657	53,182	21,782
Sulphate, Paper Grades, Total	3,737,348	1,312,408	3,947,335	1,718,786	4,033,856	2,198,263
Bleached	3,570,693	1,256,971	3,795,005	1,656,510	3,859,586	2,110,794
Semi-Bleached	54,385	20,645	56,973	24,804	66,930	35,456
Unbleached	112,270	34,792	95,357	37,478	107,340	52,013
Soda	**	**	**	***	**	**
Groundwood	51,921	13,010	92,558	28,532	237,971	78,777
Other *	55,587	19,936	104,254	37,478	132,794	53,342
WASTE PAPER	99,313	11,182	127,398	19,231	161,367	27,361
PAPER, PAPERBOARD AND PRODUCTS, TOTAL	11,936,452	6,035,850	12,837,045	6,927,694	13,110,229	8,002,048
PAPER, PAPERBOARD AND OTHER, TOTAL	11,546,545	5,247,129	12,435,486	5,995,123	12,679,974	6,989,007
PAPER, TOTAL‡	10,925,453	5,051,917	11,765,207	5,768,704	12,016,518	6,749,883
Newsprint	8,587,507	3,682,351	8,986,548	4,121,327	8,801,503	4,569,853
Printing and Writing Paper, Total	2,029,302	1,179,802	2,410,217	1,412,458	2,812,257	1,899,746
Groundwood, Uncoated	1,028,231	531,149	1,269,774	654,767	1,362,642	792,881
Coated and Impregnated Paper	501,382	359,495	674,531	467,865	797,765	641,466
Uncoated Free Sheet	453,638	254,627	417,395	249,943	591,829	414,326
Book, Uncoated	223,798	126,278	210,624	119,775	258,146	175,746
Writing Papers	229,841	128,349	206,771	130,168	333,683	238,580
Other Fine Paper	-	-	-	-	-	-
Thin Paper	45,351	33,831	47,567	38,831	55,774	48,804
Bristols	700	700	950	1,052	4,247	2,269
Packaging & Industrial Paper, Total	242,571	146,212	310,321	191,620	343,197	231,796
Unbleached Kraft	115,008	42,650	168,420	69,828	161,708	76,116
Other Packaging & Converting	101,841	63,002	107,904	65,428	146,120	94,119
Glassine & Greaseproof	15,158	20,822	21,130	31,230	22,601	34,611
Vegetable Parchment	1,412	2,000	1,488	2,398	1,611	2,941
Special Industrial Paper	9,151	17,737	11,379	22,735	11,157	24,009
Tissue Paper	66,073	43,552	58,121	43,299	59,561	48,488
PAPERBOARD, TOTAL	281,448	87,818	360,831	127,461	341,011	130,713
Test or Containerboard	78,063	25,596	80,981	29,352	85,682	36,145
Semichemical Corrugating	99,062	22,092	128,636	33,898	142,490	43,596
Other Paperboard	104,324	40,130	151,214	64,211	112,839	50,972
WET MACHINE BOARD	3,235	2,525	3,463	2,638	4,239	3,780
CONSTRUCTION PAPER & BOARD, TOTAL	336,409	104,868	305,985	96,320	318,206	104,631
Building Paper	202,336	59,639	198,783	56,532	192,498	49,454
Insulating and Other Building Board	134,073	45,229	107,202	39,788	125,708	55,177
PAPER AND PAPERBOARD PRODUCTS, TOTAL‡	389,907	788,721	401,559	932,571	430,255	1,013,041
PAPER PRODUCTS, TOTAL‡	361,517	730,257	368,179	866,121	393,009	944,974
Printing & Book Paper‡	49,474	198,654	55,943	248,208	51,134	247,337
Writing & Related Paper	203,200	416,344	234,725	508,182	288,967	606,792
Packaging & Special Industrial Paper	40,243	53,154	22,952	55,886	16,415	47,886
Tissue Paper	68,600	62,105	54,559	53,845	36,573	42,959
PAPERBOARD PRODUCTS, TOTAL	28,390	58,464	33,380	66,453	37,166	68,067

* Includes Mixtures and Screenings
** Included with Sulphate Pulp Imports
‡ Coated and Impregnated Printing Papers included in Primary Coated Papers, in earlier years they were in Paper Products.

R - Revised

NOTE: Dollar figures for the value of shipments for which no tonnage figures were given are shown below. They are not included in the sub-totals, but are in the Total, All Grades: ($ 000)

	$212,338	$201,453	$177,686

Chart 7

U.S. IMPORTS EXCLUDING NEWSPRINT

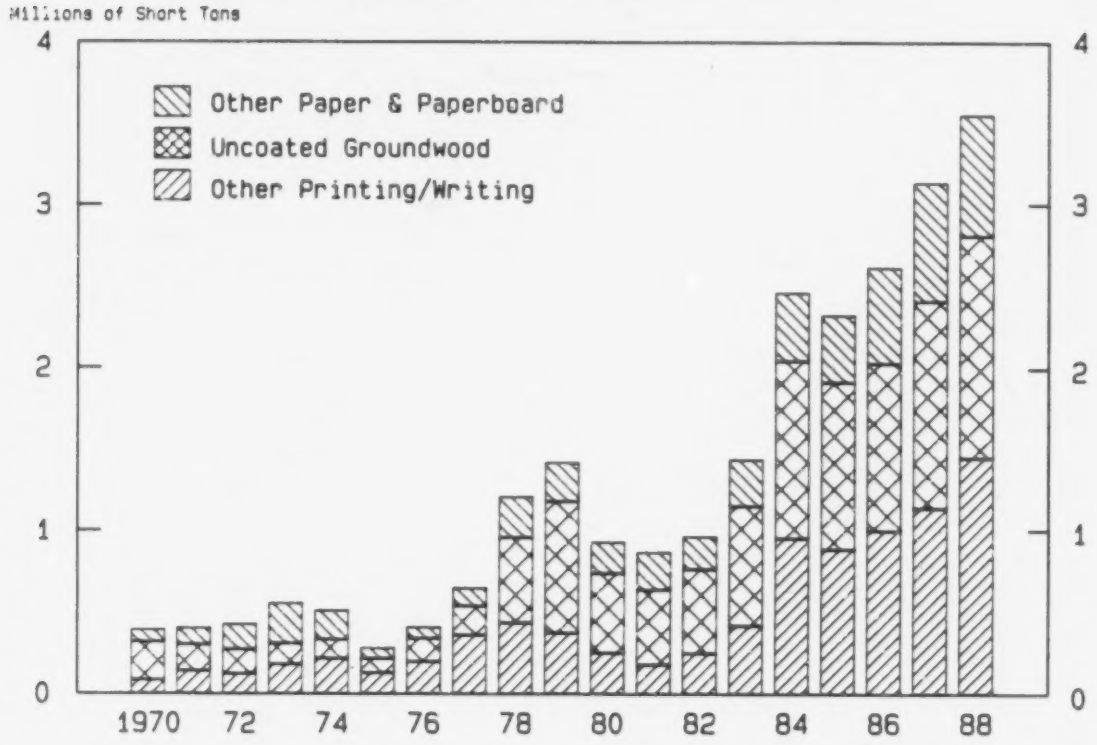


Chart 8

U.S. EXPORTS OF PAPER AND PAPERBOARD

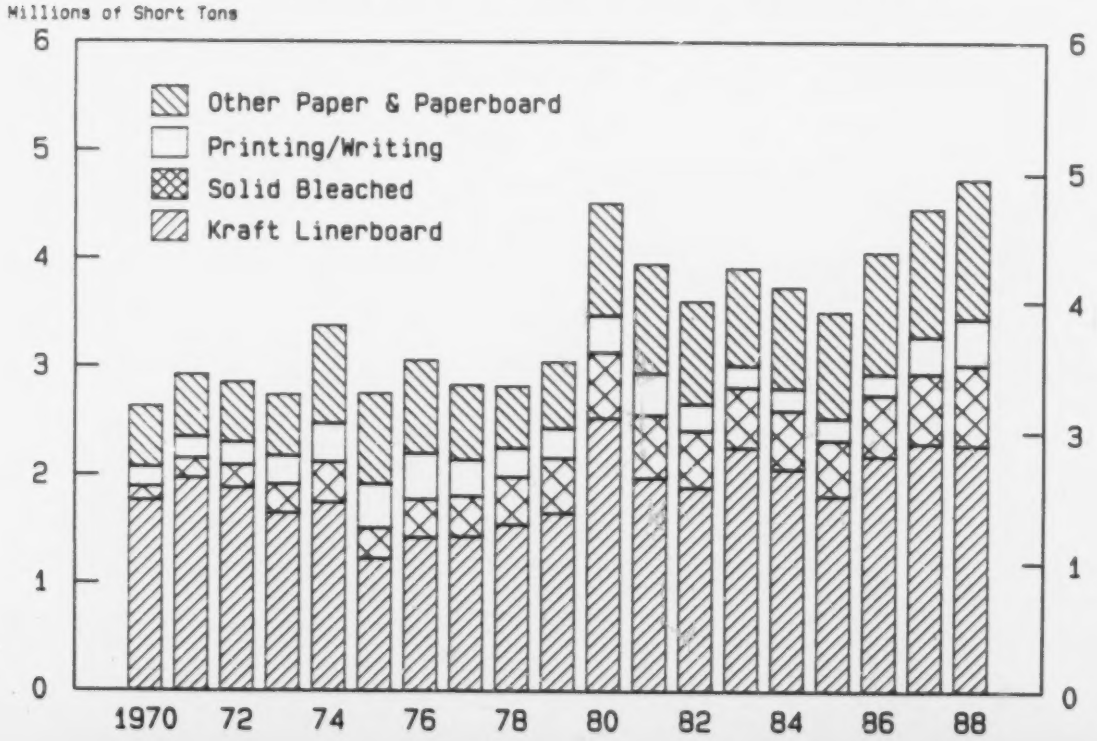


Chart 9

U.S. EXPORTS OF TOTAL PAPER & TOTAL PAPERBOARD

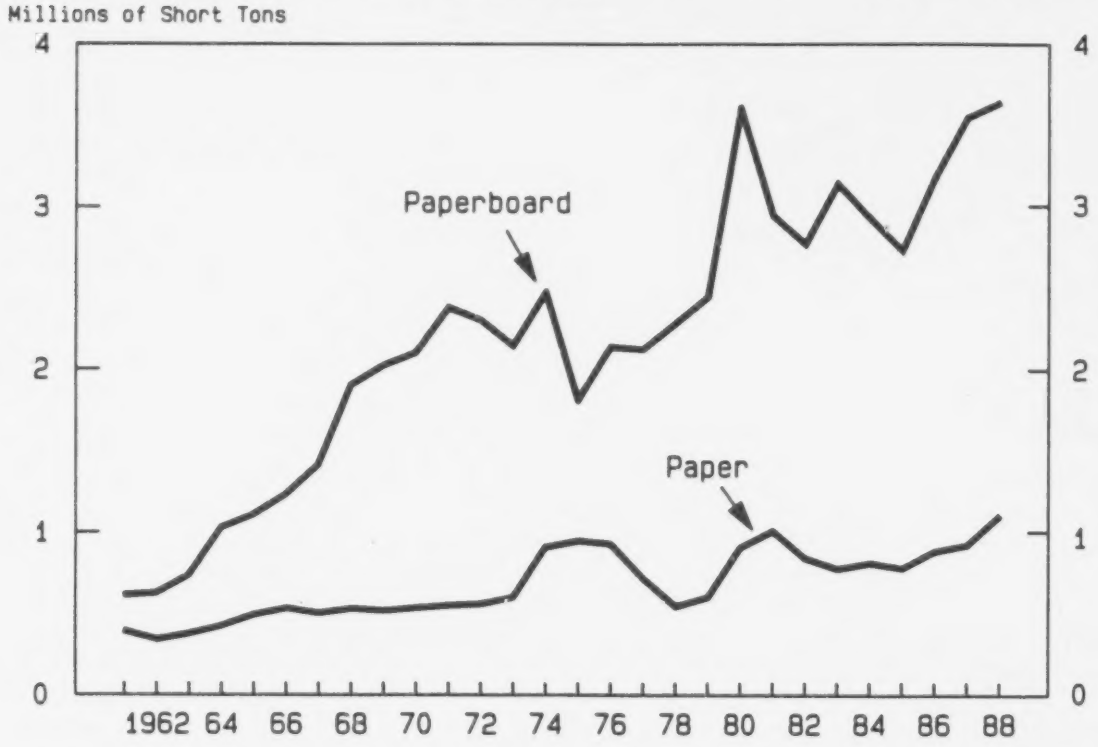


Chart 10

U.S. EXPORTS OF TOTAL WOOD PULP AND WASTE PAPER

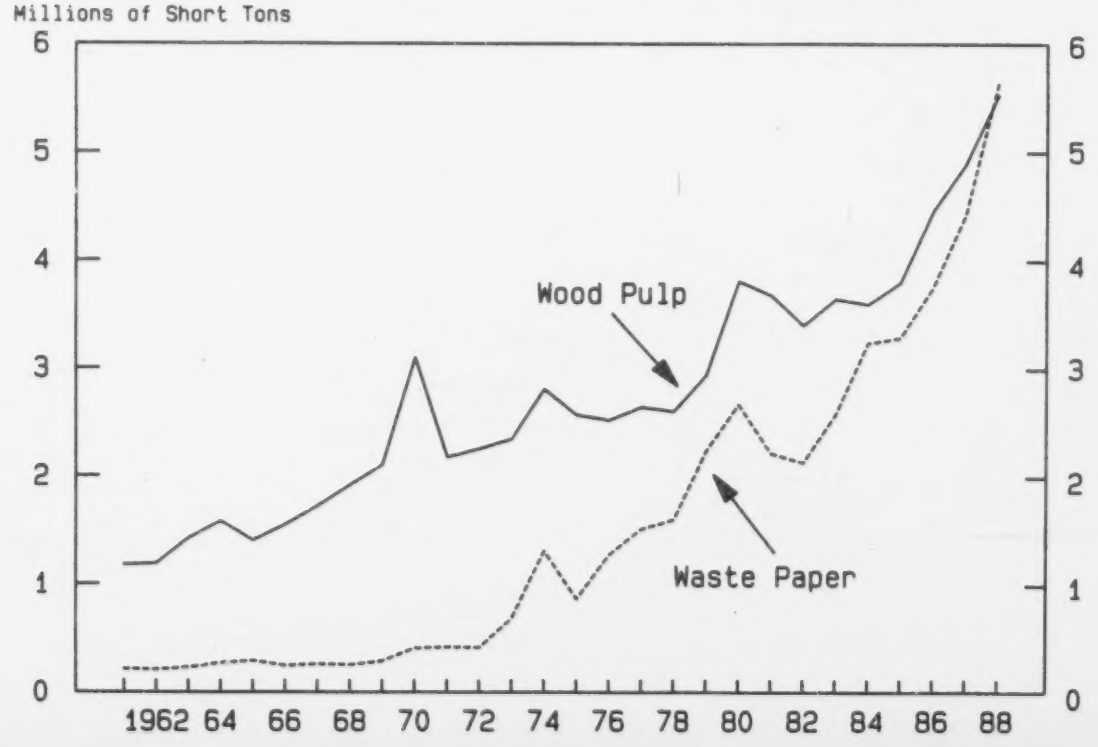


TABLE XII

EXPORTS

1983 - 1988

WOOD PULP, PAPER, PAPERBOARD AND PRODUCTS

	1983		1984		1985	
	Tons	$ 000	Tons	$ 000	Tons	$ 000
TOTAL ALL GRADES	**10,889,442**	**4,229,844**	**11,301,136**	**4,534,007**	**11,259,715**	**4,047,813**
WOOD PULP ALL GRADES, TOTAL	**3,643,963**	**1,362,022**	**3,593,585**	**1,501,947**	**3,795,102**	**1,353,758**
Dissolving and Special Alpha	646,509	325,606	594,963	304,295	630,862	299,186
Sulphite, Paper Grades, Total	294,189	109,993	273,805	111,055	272,288	93,216
Bleached	281,422	106,258	263,416	107,797	250,047	87,873
Unbleached	12,767	3,736	10,389	3,258	22,241	5,343
Sulphate, Paper Grades, Total	2,663,639	913,537	2,670,794	1,064,663	2,862,933	951,684
Bleached	2,510,158	872,076	2,504,038	1,010,851	2,727,183	914,977
Semi-Bleached	57,630	18,230	75,937	25,697	40,543	13,150
Unbleached	95,851	23,231	90,819	28,116	95,207	23,557
Mechanical, Semi-Chemical & Other	39,626	12,884	54,023	21,934	29,019	9,672
COTTON PULP & OTHER FIBER	**102,863**	**69,805**	**84,883**	**63,545**	**107,224**	**71,802**
WASTE PAPER	**2,573,716**	**308,915**	**3,235,441**	**408,128**	**3,285,926**	**349,258**
PAPER, PAPERBOARD AND PRODUCTS, TOTAL	**4,568,900**	**2,481,137**	**4,387,227**	**2,551,544**	**4,071,463**	**2,266,377**
PAPER, PAPERBOARD AND OTHER, TOTAL	**3,984,537**	**1,718,035**	**3,819,212**	**1,789,505**	**3,580,553**	**1,586,234**
PAPER, TOTAL	**773,760**	**599,557**	**810,933**	**632,493**	**779,000**	**594,338**
Newsprint	**294,870**	**127,119**	**306,198**	**133,964**	**314,385**	**131,379**
Printing & Writing Paper, Total	**201,820**	**198,304**	**203,525**	**219,925**	**202,826**	**201,845**
Uncoated Groundwood	37,292	33,300	30,405	28,875	36,779	31,727
Coated Printing and Converting	79,185	60,033	85,715	71,368	82,461	64,624
Coated Groundwood	33,987	25,172	44,376	36,133	36,444	31,922
Coated Book	45,198	34,861	41,339	35,235	46,017	32,701
Uncoated Free Sheet	59,133	71,662	65,410	87,255	64,573	79,015
Thin (ex. cigarette)	17,643	20,010	14,036	20,705	13,338	17,603
Cotton Fiber	4,837	9,779	4,983	8,247	4,286	7,493
Bristols	3,730	3,520	2,976	3,475	1,389	1,383
Packaging & Industrial Paper, Total	**261,487**	**255,273**	**284,201**	**259,323**	**243,671**	**242,909**
Unbl.Kraft Pkg & Ind.Conv.,Total	116,190	43,233	106,712	44,382	67,695	29,931
Unbleached Kraft exc. Ship. Sack	47,133	18,037	40,434	19,155	29,062	15,595
Shipping Sack	69,057	25,196	66,278	25,227	38,663	14,336
Glassine, Greaseproof & Veg. Pa	17,202	7,682	5,444	8,845	6,189	9,597
Other Pkg. & Industrial Converting	16,272	22,056	26,148	22,693	31,917	22,347
Special Industrial, Total	111,523	182,302	145,897	183,403	137,870	181,034
Special Industrial	101,743	160,454	136,924	162,043	129,565	162,808
Absorbent	9,781	21,848	8,973	21,360	8,305	18,226
Tissue Paper	**15,883**	**18,861**	**17,009**	**19,281**	**18,118**	**18,205**
PAPERBOARD TOTAL	**3,143,405**	**1,086,488**	**2,930,607**	**1,113,040**	**2,732,744**	**952,190**
Kraft Linerboard (a)	2,254,544	575,862	2,058,034	630,691	1,807,151	480,909
Other Kraft Paperboard (Unbleached)	107,142	51,822	110,878	51,270	100,651	41,053
Corrugating Medium Semichemical	73,758	17,144	49,612	12,220	61,853	15,293
Bleached Packaging Paperboard, Total	558,326	371,436	543,217	346,432	517,525	333,102
Milk Carton	392,485	266,165	348,816	227,899	378,814	244,935
Folding Boxboard	87,896	57,361	106,450	68,074	110,721	67,578
Plate, Dish, Tray & Cup	35,970	23,608	42,180	25,718	9,896	7,104
Other	41,974	24,303	45,775	24,748	18,088	13,506
Recycled Furnish Paperboard, Total	149,635	70,224	168,866	72,427	245,564	81,833
Boxboard & Related Boards	57,818	27,908	5,387	3,334	56,213	30,232
Special Paperboard	42,323	29,408	123,368	59,001	124,136	35,015
Containerboard	49,494	12,908	40,111	10,092	65,215	16,586
WET MACHINE BOARD	**11,624**	**5,420**	**13,782**	**7,335**	**13,380**	**6,930**
CONSTRUCTION PAPER & BOARD, TOTAL	**55,748**	**26,570**	**63,890**	**36,637**	**55,429**	**32,776**
Building Paper	20,676	11,633	26,498	17,765	21,671	13,344
Insulating & Other Building Board	35,070	14,937	37,392	18,872	33,758	19,433
PAPER AND PAPERBOARD PRODUCTS, TOTAL	**584,363**	**763,102**	**568,015**	**762,039**	**490,910**	**680,143**
PAPER PRODUCTS, TOTAL	**311,912**	**535,687**	**286,461**	**516,155**	**237,191**	**464,174**
Cig. Paper Cut to Size, Books, etc.	16,280	44,419	15,830	42,808	14,939	39,710
PAPERBOARD PRODUCTS, TOTAL	**272,451**	**227,415**	**281,554**	**245,884**	**253,719**	**215,970**

NOTE: Grade structure revised in 1978.

NOTE: Dollar figures for the value of shipments for which no tonnage figures were given are shown below. They are not included in the sub-totals, but are in the Total, All Grades: ($ 000)

	$7,965	$8,843	$6,618

TABLE XII (Cont.)

EXPORTS

1983 - 1988

WOOD PULP, PAPER, PAPERBOARD AND PRODUCTS

	1986		1987		1988	
	Tons	$ 000	Tons	$ 000	Tons	$ 000
TOTAL ALL GRADES	**13,051,329**	**4,692,884**	**14,797,719**	**6,015,948**	**17,061,211**	**7,476,535**
WOOD PULP ALL GRADES, TOTAL	**4,458,317**	**1,662,465**	**4,889,331**	**2,259,377**	**5,528,292**	**2,914,522**
Dissolving and Special Alpha	711,086	339,148	751,825	385,612	864,924	503,610
Sulphite, Paper Grades, Total	343,943	110,831	413,449	165,129	422,273	193,618
Bleached	317,493	104,110	375,020	157,947	392,117	179,384
Unbleached	26,450	6,721	38,429	7,182	30,156	14,234
Sulphate, Paper Grades, Total	3,344,619	1,197,590	3,697,621	1,698,130	4,190,314	2,196,460
Bleached	3,181,631	1,151,427	3,531,681	1,635,111	3,990,532	2,107,402
Semi-Bleached	18,781	6,388	7,747	2,811	25,777	7,099
Unbleached	144,207	39,775	158,193	60,208	174,005	81,959
Mechanical, Semi-Chemical & Other	58,669	14,896	26,436	10,506	50,781	20,834
COTTON PULP & OTHER FIBER	**157,452**	**72,500**	**182,001**	**91,365**	**201,567**	**111,923**
WASTE PAPER	**3,748,711**	**411,076**	**4,422,139**	**553,348**	**5,640,118**	**688,258**
PAPER, PAPERBOARD AND PRODUCTS, TOTAL	**4,686,849**	**2,539,545**	**5,304,248**	**3,103,821**	**5,691,234**	**3,752,662**
PAPER, PAPERBOARD AND OTHER, TOTAL	**4,160,284**	**1,853,748**	**4,579,052**	**2,280,422**	**4,876,565**	**2,701,406**
PAPER, TOTAL	**883,768**	**642,728**	**921,419**	**776,227**	**1,102,490**	**988,031**
Newsprint	**392,232**	**194,550**	**339,773**	**210,093**	**427,296**	**295,474**
Printing & Writing Paper, Total	**190,677**	**185,275**	**249,092**	**242,639**	**287,207**	**313,047**
Uncoated Groundwood	40,850	28,947	55,841	39,751	70,286	58,639
Coated Printing & Converting	78,253	57,858	100,839	72,145	97,463	79,730
Coated Groundwood	36,388	28,356	39,284	28,592	46,211	39,955
Coated Book	41,865	29,502	61,555	43,552	51,252	39,775
Uncoated Free Sheet	50,148	71,355	67,858	99,330	82,660	124,049
Thin (ex. cigarette)	14,533	19,167	18,409	23,331	28,129	39,532
Cotton Fiber	4,479	5,843	4,084	6,117	6,026	8,687
Bristols	2,414	2,105	2,061	1,966	2,643	2,410
Packaging & Industrial Paper, Total	**284,098**	**241,551**	**294,222**	**292,704**	**346,718**	**342,117**
Unbl.Kraft Pkg. & Ind. Conv., Total	78,250	32,011	89,194	40,758	110,075	54,975
Unbl. Kraft exc. Shipping Sack	20,883	11,343	23,543	15,670	24,429	19,729
Shipping Sack	57,367	20,668	65,651	25,088	85,646	35,246
Glassine, Greaseproof & Veg. Parch.	3,976	9,482	6,182	13,525	32,336	37,146
Other Pkg. & Industrial Converting	36,435	26,495	34,022	23,266	19,723	11,381
Special Industrial, Total	165,437	173,563	164,824	215,155	184,584	238,615
Special Industrial	157,274	157,126	153,086	191,982	173,824	211,450
Absorbent	8,163	16,437	11,736	23,173	10,760	27,165
Tissue Paper	**16,761**	**21,352**	**38,332**	**30,790**	**41,268**	**37,393**
PAPERBOARD TOTAL	**3,182,468**	**1,159,122**	**3,550,281**	**1,444,974**	**3,642,199**	**1,644,315**
Kraft Linerboard (a)	2,177,426	635,749	2,296,633	812,161	2,281,362	887,846
Other Kraft Paperboard (Unbleached)	157,615	57,547	210,566	78,596	292,437	102,638
Corrugating Medium Semichemical	76,643	21,712	63,951	22,938	42,360	18,060
Bleached Packaging Paperboard, Total	571,304	359,957	647,803	407,923	742,919	502,514
Milk Carton	417,029	264,142	452,176	290,326	504,372	337,463
Folding Boxboard	119,999	72,479	150,029	90,190	193,105	133,872
Plate, Dish, Tray & Cup	14,703	9,596	28,332	14,576	26,796	18,289
Other	19,573	13,740	17,266	12,832	18,646	12,890
Recycled Furnish Paperboard, Total	199,480	84,157	331,328	123,356	283,121	133,257
Boxboard & Related Boards (c)	10,218	5,008	6,841	4,095	95,232	46,115
Special Paperboard	134,826	64,206	238,467	97,440	119,747	58,646
Containerboard	54,436	14,943	86,020	21,820	68,142	28,496
WET MACHINE BOARD	**18,895**	**7,258**	**17,328**	**7,816**	**11,691**	**4,915**
CONSTRUCTION PAPER & BOARD, TOTAL	**75,153**	**44,640**	**90,024**	**51,405**	**120,185**	**64,145**
Building Paper	25,935	15,905	33,779	22,491	34,652	24,893
Insulating & Other Building Board	49,218	28,735	56,245	28,914	85,533	39,252
PAPER AND PAPERBOARD PRODUCTS, TOTAL	**526,565**	**685,797**	**725,196**	**823,399**	**814,669**	**1,051,256**
PAPER PRODUCTS, TOTAL	**240,221**	**456,434**	**301,202**	**540,681**	**367,548**	**682,281**
Cig. Paper Cut to Size, Books, etc.	15,416	37,718	17,295	43,497	22,307	59,827
PAPERBOARD PRODUCTS, TOTAL	**286,344**	**229,363**	**423,994**	**282,718**	**447,121**	**368,975**

(a) Contains Bleached Kraft Linerboard reported as follows:(Tons) 1981 - 151,979; 1982 - 67,595; 1983 - 160,253; 1984 - 141,368; 1985 - 130,358; 1986 - 133,787; 1987 - 102,266; 1988 - 140,801(c) Excludes Recycled Corrugating Medium.

NOTE: Dollar figures for the value of shipment for which no tonnage figures were given are shown below. They are not included in the sub-totals, but are in the Total, All Grades: ($ 000)

	$7,298	$8,037	$9,170

TABLE XIII
VALUE OF SHIPMENTS OF PRODUCT CLASSES
1981 - 1986
(Millions of Dollars)

SIC CODE		1981	1982	1983	1984	1985	1986
26	PAPER AND ALLIED PRODUCTS (1)	$77,294.4	$77,067.2	$81,802.8	$92,543.9	$90,798.9	$94,833.2
2611-	Pulp Mill Products	3,971.0	3,644.2	3,624.3	4,183.9	3,629.5	4,188.8
26111	Special Alpha and Dissolving Woodpulp	715.1	593.8	589.9	617.6	561.6	587.6
26113	Sulfate Wood Pulp	(	2,510.8	2,479.7	3,125.3	2,626.6	3,139.8
26114	Sulfite and Other Wood Pulp	(3,249.8	183.0	209.6	200.4	228.4	211.8
26115	Pulp, Other Than Wood, and Pulpmill Byproducts, N.E.C.	(	353.0‡	336.0	236.8	208.3	249.3
26110	Pulp Mill Products, N.S.K.	6.0	3.6	9.1	3.8	4.6	.3
2621-	Papermill Products, except Building Paper	19,936.3	20,056.9	21,361.0	24,354.3	23,631.0R	24,476.7
26211	Newsprint	2,063.0	2,161.6	2,220.1	2,369.8	2,385.4	2,409.5
26212	Uncoated Groundwood Paper	842.3	841.5	888.6	1,043.8	996.4	942.3
26213	Clay Coated Printing and Converting Papers	3,581.4	3,787.3	4,232.4	5,362.7	5,369.0	5,468.0
26214	Uncoated Free Sheet	5,765.7	5,530.6	5,999.2	6,899.1	6,648.1	7,329.8
26215	Bleached Bristols, Excluding Cotton Fiber Index and Bogus	602.8	605.2	667.6	708.7	673.9	697.4
26216	Cotton Fiber Paper and Thin Paper	736.2	599.3	619.1	762.4	684.9	722.5
26217	Unbleached Kraft Packaging and Industrial Converting Paper	1,444.4	1,199.8	1,219.0	1,349.1	1,101.7	1,125.9
26218	Packaging and Industrial Converting Paper, Except Unbleached Kraft	793.3	666.7	738.3	858.7	879.9	869.6
26219	Special Industrial Paper	639.5	942.8	960.0	1,058.2	1,007.3	997.0
2621A	Tissue Paper and Other Machine Creped Paper	(3,467.6	3,685.4‡	3,782.2	3,882.3	3,843.3R	3,884.3
26210	Tissue Mill Products, Except Building Paper, N.S.K.	(	36.7	34.2	59.4	41.3	30.4
2631-	Paperboard Mill Products	10,064.9	9,390.0	9,932.8	11,686.2	10,574.4	11,316.6
26311	Unbleached Kraft Packaging and Industrial Converting Paperboard	4,575.9	4,076.1	4,101.0	5,218.1	4,655.3	5,110.6
26312	Bleached Packaging and Industrial Converting Paperboard	2,031.3	2,146.0	2,215.3	2,366.6	2,077.1	2,285.9
26313	Semichemical Paperboard	1,158.7	1,012.5	987.2	1,355.3	1,223.9	1,344.0
26314	Recycled Paperboard	2,173.0	2,062.1	2,537.3	2,607.0	2,512.6	2,474.5
26318	Wet Machine Board	76.8	62.8	64.8	81.6	78.3	66.5
26310	Paperboard Mill Products, N.S.K.	49.3	30.4	27.4	57.6	27.1	35.2
264-	Miscellaneous Converted Paper Products	24,273.3	25,043.7	26,562.3	29,924.0	30,367.1R	31,999.9
2641-	Coated and Glazed Paper	4,803.4	4,903.1	5,314.1	6,451.9	6,653.7	7,099.6
26411	Printing Paper Coated at Establishments Not Making Paper	269.3	241.6	322.0	319.7	394.3	373.3
26413	Gummed Products	237.7	211.9	228.9	290.1	203.1	191.9
26414	Pressure Sensitive Products	1,857.3	1,867.6	2,110.6	2,616.3	2,660.8	2,728.4
26415	Single Web Paper, Coated Rolls & Sheets, Incl. Waxed, foor Pkg. Uses	(	433.9	446.6	517.1	549.8	607.4
26416	Single Web Film, Coated Roll & Sheets, Incl. Coextruded, for Pkg. Uses	(1,607.6	168.2	194.0	317.2	344.5	413.9
26419	Paper/Paper Multiweb Laminations, for Packaging Uses	(	182.3	155.0	187.4	181.2	197.0
2641A	Multiweb Laminated Rolls & Sheets, Exc. Paper/Paper & Foil for Pkg. Uses.	(	544.8‡	562.7	683.8	751.8	863.5
2641B	Other Coated and Processed Paper, Except for Packaging	689.7	900.3‡	1,023.3	1,135.7	1,214.5	1,348.4
26410	Coated and Glazed Paper, N.S.K.	141.4	352.6‡	271.2	384.6	353.9	375.7
26420	Envelopes (Excluding Stationary Envelopes)	1,610.3	1,751.6	1,874.9	2,107.6	2,086.1	2,229.7
2643-	Bags, Except Textile Bags	5,037.6	4,772.8	5,081.3	5,387.6	5,541.9	5,839.2
26434	Grocer's Bags and Sacks, Variety, Shopping, Uncoated	1,209.5	1,163.8‡	1,181.9	1,183.4	1,084.7	1,006.5
26435	Specialty Bags and Liners, Single Web Paper, Coated	(	205.5‡	279.8	255.3	264.7	235.0
26436	Specialty Bags and Liners, Single Web Film	(2,972.7	1,964.0‡	2,271.7	2,346.6	2,627.2	2,992.4
26437	Specialty Bags and Liners, Multiweb Laminations and Foil	(	222.1‡	244.4	235.0	241.5	370.5
26438	Shipping Sacks and Multiwall Bags, Except Textiles	805.8	846.5‡	878.1	963.1	884.7	889.3
26430	Bags, Except Textile Bags, N.S.K.	(S)	370.9‡	225.3	404.1	439.1	415.4
2645-	Die-Cut Paper and Board	1,514.8	1,605.1	1,797.6	1,880.0	1,651.0	1,690.0
26453	Die-Cut Paper and Board Office Supplies	(826.5	597.9‡	669.2	652.3	618.5	642.5
26454	Die-Cut Paper and Board Products (Other than Office)	(	199.4‡	254.7	264.0	265.5	298.4
26455	Pasted, Lined, Laminated, or Surface-Coated Paperboard	576.0	684.8‡	745.3	828.3	592.3	567.6
26450	Die-Cut Paper and Board Products, N.S.K.	112.3	123.0‡	128.3	135.4	174.6	181.5
2646-	Pressed and Molded Pulp Goods	246.2	242.3	217.4	236.3	260.3	269.7
26461	Bituminous Fiber Pipe,	(D)	(D)	(D)	(D)	(D)	(D)
26462	Other Pressed and Molded Pulp Goods	239.9	(D)	(D)	(D)	(D)	(D)
26460	Pressed and Molded Pulp Goods, N.S.K.	(D)	(D)	(D)	(D)	(D)	(D)
2647-	Sanitary Paper Products	7,752.3	8,373.5	8,615.8	9,771.5	10,193.7R	10,732.0
26471	Sanitary Napkins and Tampons	919.2	915.1	944.3	1,162.5	1,167.0R	1,334.3
26473	Disposable Diapers	**	2,158.5‡	2,175.0	2,593.9	2,608.9	2,992.9
26474	Sanitary Tissue Health Products	6,793.0	5,259.8‡	5,457.4	5,920.7	6,338.2	6,377.6
26470	Sanitary Paper Products, N.S.K.	40.1	40.1‡	39.1	94.4	79.6	97.1
2648-	Stationery Products	896.6	959.2	1,057.6	1,160.9	1,107.4	1,192.3
26481	Stationery	268.4	261.8	309.5	304.9	314.7	342.2
26482	Tablets and Related Products	569.4	603.1	653.9	736.0	686.9	760.1
26480	Stationery Products, N.S.K.	58.9	94.4‡	94.3	120.0	105.8	90.1
2649-	Converted Paper Products N.E.C.	2,412.1	2,436.1	2,603.6	2,928.2	2,873.0	2,947.4
26493	Wallcoverings	410.2	396.9‡	459.6	497.6	540.3	519.8
26494	Gift Wrap Paper	394.8	389.6	401.0	491.9	512.5	565.4
26496	Paper Business Machine Supplies, Office Supplies, N.E.C.	(1,270.4	221.8	187.2	190.7	195.6	198.5
26497	Other Converted Paper and Board Products	(	1,082.6‡	1,210.2	1,261.7	1,211.8	1,250.5
26490	Converted Paper Products, N.E.C, N.S.K.	336.7	345.2‡	345.7	486.3	412.9	413.2
265-	Paperboard Containers and Boxes	18,548.5	18,578.1	19,906.5	21,966.9	22,179.6	22,506.1
26510	Bending Paperboard Packaging and Packaging Components	3,415.0	3,743.9	3,979.5	4,326.5	4,452.1	4,575.4
26520	Setup Paperboard Boxes	485.0	485.1	552.3	492.6	480.8	522.4
26530	Corrugated and Solid Fiber Boxes, Including Pallets	10,495.9	10,303.1	11,045.1	12,718.7	12,714.8	13,037.7
2654-	Sanitary Food Containers	2,627.2	2,555.8	2,606.4	2,749.7	2,853.2	2,806.3
26541	Milk and Other Beverage Cartons	512.6	550.5	535.2	577.5	590.1	569.2
26542	Cups and Liquid-Tight Containers	828.1	885.2	961.4	964.6	1,075.9	1,060.2
26544	Folding Sanitary Food Containers for Liquid, Etc	(1,299.1	714.7	771.8	730.3	739.3	734.0
26545	Other Sanitary Food Containers, Boards, and Trays	(	362.2‡	375.6	406.8	398.8	395.8
26540	Sanitary Food Containers, (Paperboard) N.S.K.	*	43.1‡	42.4	70.6	49.1	47.1
2655-	Fiber Cans, Drums, and Similar Products	1,525.4	1,490.3	1,643.2	1,679.4	1,678.7	1,564.3
26551	Paperboard Fiber Drums	286.5	289.8	317.2	312.7	333.1	314.8
26552	Fiber Cans, Tubes, and Similar Fiber Products	1,188.1	1,152.3	1,283.5	1,286.0	1,265.7	1,176.3
26550	Fiber Cans, Drums and Similar Products, N.S.K.	50.8	48.2‡	42.5	80.7	79.9	73.2
2661-	Building Paper and Board	500.4	354.3	415.9	428.6	417.3	345.1
26611	Fiberboard	208.7	188.9	225.0	245.9	251.3	197.2
26612	Construction Paper	253.5	165.3	189.2	174.7	158.7	137.3
26610	Building Paper and Board, N.S.K.	38.2	(Z)	1.7	(S)	7.2	10.6

SOURCE: Survey of Manufactures - Bureau of Census

R -Revised
N.S.K. - Not Specified by Kind
N.E.C. - Not Elsewhere Classified
(Z) Less than half the unit shown

(1) Sum of reported data
(A) Not reported separately
(D) Data withheld to avoid disclosure
(S) Not up to statistical standard

* - Withheld - NSK calculation was a negative number
** - Included in Sanitary Tissue Health Products
‡ - Data for 1982 and later years based on revised SIC Codes published in the 1982 Census of Manufactures

SECTION II

REGIONAL DATA

The southern states, which have long been the major producers of paper, paperboard and wood pulp in the United States, continue to lead the nation in expanding capacity. Total paper and paperboard capacity in these states will be 14.5% ahead of its 1987 total in 1991, compared to a national growth of 13.3%. Similarly, wood pulp capacity used in the manufacture of paper and paperboard is rising by 11.5% in the South, compared to 10.7% for the nation as a whole. The South will account for 73% of the growth in paperboard capacity from 1987 to 1991 and 44% of the increase in paper capacity.

This section includes tables showing data from the Bureau of the Census on state-by-state production of wood pulp, paper and paperboard, together with similar data on pulpwood consumption for 1987 -- the most recent year for which such data are available. Other tables detail growth in capacity by major grades within the Census regions, supplementing the long-term data on U.S. paper, paperboard and wood pulp capacity presented in Section I.

Also included is a table on state data for the total paper and allied products industry for 1986 as published in Census' 1986 Survey of Manufactures. Similar data from the 1987 Census of Manufactures were not available in time to be included in this publication.

The table below presents the distribution of paper, paperboard and wood pulp production for the nine Census Divisions for the years 1987 and 1991, as published in the December 1988 API Capacity Survey. This section also includes charts showing the 1987 distribution of paper and paperboard and of wood pulp capacity.

	Total Paper and Paperboard		Total Paper		Total Paperboard		Total	Other	Total Wood Pulp	
	1987	1991	1987	1991	1987	1991	1987	1991	1987	1991
	Percentage Distribution									
UNITED STATES	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
NORTH EAST	14.6	14.0	23.4	22.0	5.9	5.9	22.0	21.1	7.9	7.5
NEW ENGLAND	7.8	7.6	13.2	12.8	2.3	2.3	2.6	2.6	5.6	5.4
MIDDLE ATLANTIC	6.9	6.4	10.1	9.2	3.6	3.5	19.4	18.5	2.3	2.1
NORTH CENTRAL	17.9	17.9	22.3	22.9	13.6	12.9	19.4	20.4	7.6	7.7
EAST NORTH CENTRAL	15.9	15.4	19.5	19.1	12.3	11.7	11.4	11.3	6.5	6.1
WEST NORTH CENTRAL	2.0	2.5	2.8	3.9	1.3	1.2	8.0	9.0	1.2	1.6
SOUTH	52.6	53.2	40.3	40.7	65.0	65.9	54.7	54.5	67.6	68.1
SOUTH ATLANTIC	24.5	24.2	16.2	16.4	32.9	32.1	22.1	22.2	31.5	31.2
EAST SOUTH CENTRAL	13.3	13.7	11.3	11.5	15.2	15.8	19.4	18.9	18.6	19.2
WEST SOUTH CENTRAL	14.8	15.4	12.8	12.8	16.8	18.0	13.2	13.5	17.5	17.7
WEST	14.0	14.5	14.0	13.6	15.6	15.4	3.9	4.0	16.9	16.3
LOCATION NOT KNOWN	0.0	0.4	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.4

TABLE XIV

STATE DATA - 1987

(Short Tons)

Geographic Areas	PULPWOOD CONSUMPTION (Cords)*	WOOD PULP PRODUCTION	PAPER AND PAPERBOARD SHIPMENTS				
			Total All Grades 1/	Paper	Paperboard	Wet Machine Board#	Construction Paper Plus Insulating Board
UNITED STATES, TOTAL	92,937,117	62,357,009	74,055,260	36,133,517	36,989,614	103,080	932,129
Northeast	7,631,274	4,846,001	10,137,005	8,129,825	2,007,180	N.A.	
New England	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
Maine	4,119,854	2,426,089	(D)	3,251,670	(D)	-	
New Hampshire	-	-	(D)	(D)	(D)	(D)	
Vermont	-	(D)	(D)	136,582	(D)	-	
Massachusetts	-	-	595,662	350,889	244,773	-	
Rhode Island	-	-	-	-	-	-	
Connecticut	-	-	-	-	-	-	
Middle Atlantic	N.A.	N.A.	5,152,434	3,919,333	1,233,101	N.A.	
New York	854,323	554,799	1,931,782	1,687,673	244,109	(D)	
New Jersey	-	(D)	701,270	397,056	304,214	(D)	
Pennsylvania	1,345,137(H)	1,418,934	2,519,382	1,834,604	684,778	(D)	
North Central	6,900,660	4,646,602	13,025,134	8,075,677	4,949,457	N.A	
East North Central	N.A.	N.A.	N.A.	N.A.	N.A.	N.A	
Ohio	1,161,094(H)	844,897	2,233,001	989,690	1,243,311	-	
Indiana	-	-	-	-	-		
Illinois	-	-	696,470	162,711	533,759	(D)	
Michigan	1,178,109(H)	1,069,220	2,936,331	1,555,078	1,381,253	-	
Wisconsin	2,646,323	1,780,046	4,928,196	4,265,657	662,539	-	
West North Central	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
Minnesota	1,448,233	759,976	(D)	1,084,190	(D)	-	
Iowa	-	-	-	-	-	-	
Missouri	-	-	-	-	-	-	
Kansas	-	-	-	-	-	-	
South	61,257,931	42,677,037	39,015,070	14,727,931	24,287,139	N.A.	(N.A.)
South Atlantic	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
Delaware	-	-	-	-	-	-	
Maryland	-	-	-	-	-	-	
Virginia	3,895,290	2,897,021	3,109,804	1,252,102	1,857,702	(D)	
West Virginia	-	-	-	-	-	-	
North Carolina	4,097,929	3,112,180	2,127,538	942,662	1,184,876	-	
South Carolina	4,379,700	2,948,645	(D)	(D)	1,847,413	-	
Georgia	9,839,234	6,886,738	6,307,425	1,505,101	4,802,324	-	
Florida	5,756,475	3,710,139	2,812,039	716,309	2,095,730	-	
East South Central	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
Kentucky	-	-	(D)	(D)	(D)	-	
Tennessee	399,148(H)	1,786,586	2,367,921	1,088,070	1,279,851	(D)	
Alabama	9,463,215	6,396,965	5,665,866	2,540,609	3,125,257	-	
Mississippi	4,124,527	2,813,089	(D)	279,025	(D)	-	
West South Central	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
Arkansas	3,604,981	2,330,926	2,320,803	1,153,696	1,167,107	-	
Louisiana	6,874,265	4,970,130	4,914,773	1,934,740	2,980,033	-	
Oklahoma	-	-	-	-	-	-	
Texas	4,700,993	3,123,189	(D)	(D)	1,229,843	-	
West	17,147,252	10,167,369	10,945,922	5,200,084	5,745,838	N.A.	
Mountain	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
Montana	-	-	-	-	-	-	
Idaho	-	-	-	-	-	-	
Colorado	-	-	-	-	-	-	
New Mexico	-	-	-	-	-	-	
Arizona	-	-	-	-	-	-	
Utah	-	-	-	-	-	-	
Pacific	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
Washington	7,612,506	4,531,330	3,898,055	2,677,755	1,220,300	-	
Oregon	4,602,482	3,069,853	3,551,179	1,568,302	1,982,877	-	
California	-	821,837	1,946,135	557,013	1,389,122	-	
Alaska	(D)	-	-	-	-	-	

SOURCE: Bureau of the Census - Current Industrial Reports, Pulp, Paper and Board 1987, Series MA26A (87)-1 U.S. Department of Commerce, Washington, DC

* - 128 Cu. Ft. roughwood basis
\# - Included in Paperboard totals
\- - Represents zero
S - Softwood pulpwood only; hardwood pulpwood data withheld.
H - Hardwood pulpwood only; softwood pulpwood data withheld.
(D) - Withheld by Commerce Department to avoid disclosure
1/ - Excludes 1,700,556 tons of hard pressed board not shown separately. Subtotals show only paper plus paperboard.
(R) - Revised
N.A. - Not Available
2/ - Includes construction paper and insulating board totals not included in regional totals.

Chart 11

WOOD PULP REGIONAL CAPACITY–1987

TOTAL= 62, 076, 000 TONS

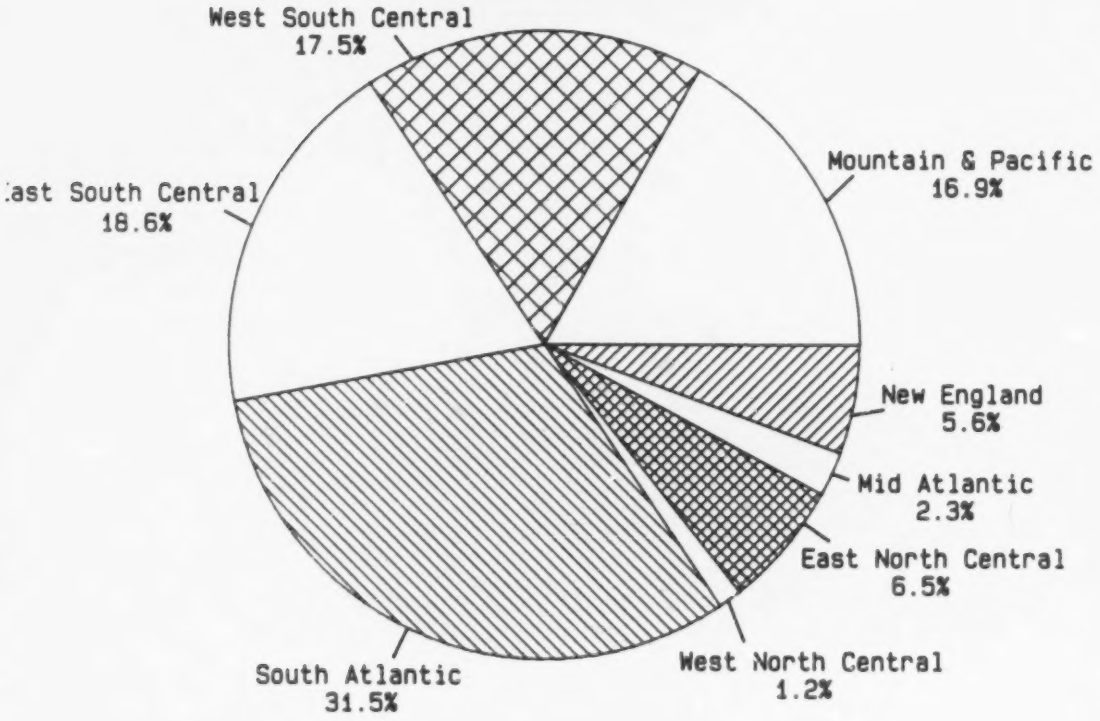


Chart 12

PAPER AND PAPERBOARD REGIONAL CAPACITY–1987

TOTAL= 80, 341, 000 TONS

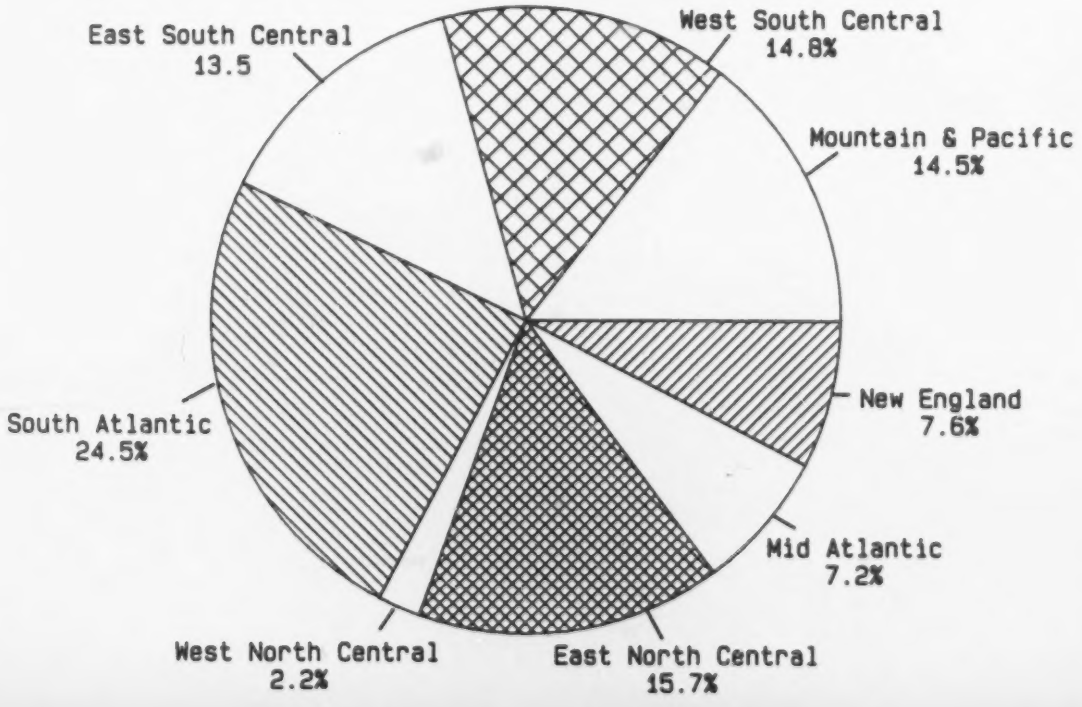


TABLE XV

CAPACITY OF PAPER, PAPERBOARD AND WOOD PULP BY CENSUS DIVISION

1970, 1983 - 1987, 1991

ANNUAL CAPACITY - 000 SHORT TONS

	Total Paper & Paper-board	PAPER					PAPERBOARD			
		Total	Newsprint	Printing Writing & Related	Packaging & Ind. Converting	Tissue	Total	Unbleached Kraft Total	Unbleached Kraft Liner-board	Solid Bleached
New England										
1970*	4,748	3,660	417	2,419	367	457	895	-	-	34
1983	5,881	4,997	N.A.	3,736	436	533	818	-	-	N.A.
1984	6,103	5,198	N.A.	3,883	466	532	841	-	-	N.A.
1985	6,133	5,295	N.A.	3,920	498	531	838	-	-	N.A.
1986	5,974	5,122	N.A.	3,791	491	524	852	-	-	N.A.
1987	6,060	5,175	N.A.	3,812	498	522	886	-	-	N.A.
1991	6,734	5,704	N.A.	4,303	492	535	1,030	-	-	N.A.
Middle Atlantic										
1970*	6,354	3,411	149	1,926	300	1,036	2,087	-	-	-
1983	5,929	3,842	N.A.	2,351	236	1,048	1,531	-	-	-
1984	5,909	3,878	N.A.	2,401	236	1,033	1,430	-	-	-
1985	5,307	3,893	N.A.	2,350	306	1,022	1,414	-	-	-
1986	5,315	3,925	N.A.	2,379	318	1,019	1,390	-	-	-
1987	5,378	3,965	N.A.	2,400	315	1,034	1,413	-	-	-
1991	5,653	4,103	N.A.	2,491	314	1,074	1,550	-	-	-
East North Central										
1970*	10,057	5,070	113	3,197	628	1,132	4,021	-	-	124
1983	11,644	6,902	N.A.	4,622	801	1,339	4,453	-	-	N.A.
1984	12,101	7,240	N.A.	4,891	840	1,366	4,553	-	-	N.A.
1985	11,937	7,302	N.A.	4,913	856	1,380	4,635	-	-	N.A.
1986	12,138	7,424	N.A.	5,017	845	1,401	4,714	-	-	N.A.
1987	12,408	7,610	N.A.	5,151	888	1,412	4,797	-	-	N.A.
1991	13,659	8,505	N.A	5,742	1,009	1,580	5,153	-	-	N.A.
West North Central										
1970*	1,587	594	-	571	23	-	438	-	-	-
1983	1,835	954	-	940	N.A.	-	467	-	-	-
1984	1,918	1,032	-	1,015	N.A.	-	483	-	-	-
1985	1,536	1,049	-	1,032	N.A.	-	488	-	-	-
1986	1,546	1,053	-	1,038	N.A.	-	493	-	-	-
1987	1,596	1,092	-	1,073	N.A.	-	504	-	-	-
1991	2,228	1,722	-	1,697	N.A.	-	506	-	-	-
South Atlantic										
1970*	13,623	3,520	339	1,275	1,723	182	9,514	6,194	5,770	1,382
1983	17,717	5,441	818	2,119	2,019	406	11,674	7,713	7,281	1,696
1984	18,113	5,844	979	2,456	1,971	438	11,749	7,793	7,362	1,711
1985	17,909	6,043	999	2,601	1,977	467	11,866	7,841	7,385	1,734
1986	18,416	6,128	1,049	2,706	1,880	494	12,288	8,034	7,551	1,914
1987	19,187	6,333	1,059	3,155	1,575	543	12,855	8,419	7,900	1,965
1991	21,420	7,319	1,325	3,820	1,399	776	14,102	9,346	8,824	2,006
East South Central										
1970*	7,137	2,792	833	747	739	473	3,439	2,232	2,168	626
1983	9,635	3,938	1,130	1,764	486	558	5,326	3,371	2,968	729
1984	10,162	4,217	1,154	1,989	495	579	5,542	3,465	3,048	750
1985	9,799	4,117	1,089	2,165	307	556	5,682	3,543	3,127	777
1986	9,931	4,145	1,060	2,311	172	602	5,786	3,713	3,283	761
1987	10,365	4,404	1,147	2,440	175	641	5,962	3,827	3,378	800
1991	12,093	5,145	1,599	2,734	169	643	6,948	4,594	3,992	815
West South Central										
1970*	7,106	3,188	721	1,130	1,247	88	3,172	1,704	1,442	871
1983	10,719	4,549	1,335	1,540	1,231	442	5,789	3,568	3,154	1,239
1984	10,738	4,491	1,188	1,592	1,259	452	5,871	3,566	3,190	1,249
1985	10,759	4,548	1,142	1,669	1,241	496	6,211	3,719	3,231	1,352
1986	11,101	4,796	1,157	1,878	1,210	551	6,305	3,752	3,258	1,371
1987	11,603	5,018	1,193	2,155	1,214	455	6,586	3,938	3,469	1,431
1991	13,608	5,712	1,243	2,721	1,235	513	7,896	4,981	4,327	1,575
Mountain and Pacific										
1970*	8,340	3,571	888	954	913	817	4,053	2,177	2,136	435
1983	10,637	5,053	1,853	1,480	855	865	5,391	2,859	2,814	434
1984	10,898	5,204	1,861	1,662	805	876	5,523	3,011	2,965	444
1985	10,920	5,333	1,848	1,808	783	894	5,587	3,042	2,996	478
1986	11,355	5,420	1,852	1,860	826	882	5,935	3,124	3,083	507
1987	11,588	5,484	1,887	1,892	807	898	6,103	3,238	3,203	521
1991	12,819	6,071	2,177	2,029	889	975	6,748	3,675	3,639	574

SOURCE: American Paper Institute, Paper, Paperboard and Wood Pulp Capacity Survey, various issues through October 1988.
* Total capacity at end of year.
N.A. Not Available - = Zero

TABLE XV (Cont.)

CAPACITY OF PAPER, PAPERBOARD AND WOOD PULP BY CENSUS DIVISION

1970, 1983 - 1987, 1991

ANNUAL CAPACITY - 000 SHORT TONS

	PAPERBOARD (Cont.)		Con-struction Paper & Board	WOOD PULP							
							Sulphate				
	Semi-Chemical	Recycled		Total **	Dis-solving	Sulphite	Bl. & Semi-Bl.	Un-bleached (1)	Semi-chemical	Mechan-ical	For Con-struction (2)
New England											
1970*	179	682	192	2,797	-	484	1,061	48	140	953	100
1983	N.A.	688	66	3.298	-	N.A.	1,890	N.A.	N.A.	971	80
1984	N.A.	711	64	3,425	-	N.A.	1,972	N.A.	N.A.	1,005	79
1985	N.A.	709	58	3,472	-	N.A.	1,982	N.A.	N.A.	1,028	79
1986	N.A.	728	51	3,369	-	N.A.	1,982	N.A.	N.A.	1,044	79
1987	N.A.	764	57	3,381	-	N.A.	2,028	N.A.	N.A.	1,014	83
1991	N.A.	906	56	3,596	-	N.A.	2,219	N.A.	N.A.	1,046	86
Middle Atlantic											
1970*	-	2,087	856	1,357	-	143	312	-	325	247	244
1983	-	1,531	557	1,473	-	N.A.	490	-	418	189	120
1984	-	1,430	600	1,457	-	N.A.	497	-	431	189	95
1985	-	1,414	475	1,394	-	N.A.	505	-	444	186	18
1986	-	1,390	413	1,383	-	N.A.	504	-	450	187	18
1987	-	1,413	417	1,411	-	N.A.	499	-	466	191	18
1991	-	1,550	395	1,430	-	N.A.	512	-	467	194	18
East North Central											
1970*	1,128	2,769	966	3,209	-	567	601	165	987	462	427
1983	1,607	2,844	309	3,465	-	485	893	N.A.	1,338	398	122
1984	1,632	2,920	308	3,531	-	475	939	N.A.	1,350	409	128
1985	1,677	2,956	269	3,537	-	462	1,007	N.A.	1,306	406	126
1986	1,768	2,943	247	3,802	-	469	1,327	N.A.	1,356	424	122
1987	1,818	2,978	245	3,908	-	400	1,408	N.A.	1,370	497	106
1991	2,043	3,110	242	4,108	-	349	1,562	N.A.	1,468	495	106
West North Central											
1970*	176	262	555	959	-	44	206	24	265	266	153
1983	N.A.	403	413	850	-	-	-----293-------		N.A.	245	268
1984	N.A.	416	403	899	-	-	N.A.	N.A.	N.A.	258	278
1985	N.A.	417	188	701	-	-	N.A.	N.A.	N.A.	269	72
1986	N.A.	421	169	641	-	-	N.A.	N.A.	N.A.	273	49
1987	N.A.	429	172	663	-	-	N.A.	N.A.	N.A.	282	51
1991	N.A.	433	193	995	-	-	N.A.	N.A.	N.A.	502	116
South Atlantic											
1970*	1,103	834	589	14,598	600	2	4,222	8,163	913	385	313
1983	1,130	1,136	601	18,164	620	N.A.	6,432	9,208	847	625	432
1984	1,056	1,189	521	18,592	580	-	6,893	9,207	835	821	256
1985	1,087	1,204	512	18,982	568	-	7,417	9,126	803	810	258
1986	1,123	1,218	485	18,977	529	-	7,724	9,077	802	845	250
1987	1,168	1,302	476	19,290	521	-	8,149	8,890	831	899	259
1991	1,298	1,452	474	21,191	522	-	9,088	9,722	916	944	260
East South Central											
1970*	333	248	906	7,586	285	-	2,481	2,820	429	844	634
1983	854	372	371	10,212	N.A.	-	4,439	3,674	722	911	211
1984	941	385	402	10,597	N.A.	-	4,712	3,714	787	913	233
1985	959	402	407	11,126	N.A.	-	5,338	3,653	796	887	235
1986	898	414	412	11,120	N.A.	-	5,583	3,672	692	954	238
1987	919	416	419	11,340	N.A.	-	5,657	3,826	671	973	234
1991	1,066	474	403	12,976	N.A.	-	6,331	4,184	829	1,422	229
West South Central											
1970*	352	245	747	7,069	-	-	2,969	2,829	259	694	319
1983	615	367	381	10,359	-	-	4,048	4,553	458	1,169	130
1984	686	370	376	10,491	-	-	4,093	4,593	531	1,159	115
1985	760	380	266	10,337	-	-	4,128	4,480	618	999	111
1986	789	394	262	10,334	-	-	4,184	4,577	629	944	108
1987	810	407	284	10,746	-	-	4,277	4,797	645	1,026	91
1991	917	423	288	12,053	-	-	4,820	5,430	728	1,075	90
Mountain and Pacific											
1970*	485	957	716	8,896	883	1,163	2,147	2,950	366	787	597
1983	748	1,352	192	9,768	649	793	2,816	3,531	590	1,307	81
1984	768	1,300	171	10,009	669	775	2,944	3,610	567	1,369	75
1985	755	1,313	146	10,064	670	778	2,942	3,662	558	1,378	74
1986	803	1,500	105	10,126	651	791	2,955	3,764	577	1,388	71
1987	785	1,559	85	10,433	653	806	3,105	3,917	579	1,373	62
1991	863	1,636	85	11,120	671	803	3,286	4,205	527	1,628	62

(1) Includes screenings. (2) Excludes defibrated/exploded pulp capacity of mills that produce hard pressed board, 1983-1991.
* Total capacity at end of year.
** Includes soda pulp for 1970 as follows (000 Tons): New England - 10, Middle Atlantic - 86, East South Central - 93, Mountain and Pacific - 4. Other years included in sulphate pulp. N.A. Not Available - = Zero

TABLE XVI

PAPER AND ALLIED PRODUCTS - 1986 DATA

	Number of All Employees (000)	Total Payroll ($000,000)	Number of Production Workers (000)	Wages of Production Workers	Value Added by Manufacture	Value of Shipments	Capital Expenditures
				Million Dollars			
NORTHEAST	163.7	4,048.3	122.3	2,626.0	10,192.6	22,231.3	1,172.6
New England	59.7	1,548.2	44.7	956.1	3,799.7	8,294.6	531.7
Maine	16.8	543.2	13.3	404.4	1,374.5	3,057.0	334.8
New Hampshire	6.4	163.6	4.5	96.5	368.5	878.4	40.8
Vermont	2.3	53.5	1.8	40.4	182.2	360.7	10.4
Massachusetts	24.7	564.7	17.6	357.6	1,202.4	2,699.1	95.8
Rhode Island	2.0	35.8	1.6	23.8	71.8	153.2	2.2
Connecticut	7.5	187.4	5.9	33.4	600.3	1,146.2	47.7
Middle Atlantic	104.0	2,500.1	77.6	1,669.9	6,392.9	13,936.7	640.9
New York	38.0	879.1	28.8	600.3	1,995.2	4,386.9	173.3
New Jersey	26.5	628.8	19.1	384.6	1,506.8	3,171.7	136.7
Pennsylvania	39.5	992.2	29.7	685.0	2,890.9	6,378.1	330.9
NORTH CENTRAL#	173.5	4,608.7	131.6	3,201.2	12,393.2	27,132.6	1357.9
East North Central	138.1	3,726.8	104.2	2,578.6	9,507.7	21,391.4	979.5
Ohio	30.1	801.2	22.7	568.4	1,668.7	3,981.2	149.9
Indiana	13.0	297.2	9.6	192.7	723.4	1,717.5	63.7
Illinois	33.7	784.8	26.0	520.2	1,985.3	4,258.9	131.8
Michigan	19.2	575.5	14.0	399.6	1,536.4	3,330.1	140.3
Wisconsin	42.1	1,268.1	31.9	897.7	3,593.9	8,103.7	493.8
West North Central#	35.4	881.9	27.4	622.6	2,885.5	5,741.2	378.4
Minnesota	13.5	375.2	10.6	270.6	1,283.7	2,366.1	244.9
Iowa	4.4	111.7	3.4	76.3	336.0	736.9	28.9
Missouri	11.6	272.6	9.0	197.6	868.7	1,796.8	85.6	
North Dakota	-	-	-	-	-	-	-
South Dakota	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Nebraska	1.2	27.7	0.9	18.0	53.9	134.5	3.8
Kansas	4.7	94.7	3.5	60.1	343.2	706.9	15.2
SOUTH#	197.6	5,496.0	152.0	3,844.7	15,782.5	35,369.4	2,874.3
South Atlantic	102.3	2,799.4	77.8	1,884.3	7,945.3	17,707.1	1,731.0
Delaware	3.1	69.3	2.0	42.1	189.6	543.7	4.1
Maryland	10.5	233.7	7.2	45.8	546.4	1,066.6	105.0
Virginia	14.1	383.4	10.6	268.9	1,091.9	2,320.6	243.5
West Virginia	1.2	22.2	0.8	14.2	46.4	98.7	2.4
North Carolina	19.7	528.9	15.6	388.8	1,308.7	2,970.0	183.5
South Carolina	13.3	410.5	10.6	299.9	1,482.4	2,820.4	543.4
Georgia	27.4	777.7	20.8	548.1	2,359.6	5,506.7	414.1
Florida	13.0	373.7	10.2	276.5	920.3	2,380.4	235.0
East South Central	48.3	1,393.1	37.4	1,015.8	4,371.2	9,087.5	613.3
Kentucky	5.8	145.7	4.5	102.7	476.8	1,056.3	55.2
Tennessee	17.0	426.8	13.1	302.7	1,298.6	2,783.6	125.7
Alabama	17.8	601.6	13.7	450.7	1,972.5	3,820.1	371.6
Mississippi	7.7	219.0	6.1	159.7	623.3	1,427.5	60.8
West South Central	47.0	1,303.5	36.8	944.6	3,466.0	8,574.8	530.0
Arkansas	11.2	333.6	9.1	252.2	695.9	1,985.8	85.6
Louisiana	10.2	336.4	8.0	250.9	952.9	2,417.6	271.5
Oklahoma	3.5	98.7	2.9	77.5	333.2	778.5	(D)
Texas	22.1	534.8	16.8	364.0	1,484.0	3,392.9	172.9
WEST#	65.0	1,892.3	50.4	1,375.5	5,432.3	12,711.2	555.8
Mountain#	6.6	179.6	5.4	130.1	456.4	1,115.4	22.6
Montana	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Idaho	2.3	65.5	1.9	51.2	167.9	384.2	(D)
Wyoming	-	-	-	-	-	-	-
Colorado	1.7	54.7	1.3	34.6	113.7	304.7	18.9
New Mexico	-	-	-	-	-	-	-
Arizona	1.4	36.4	1.2	27.4	104.9	262.8	(D)
Utah	1.2	23.0	1.0	16.9	69.9	163.7	3.7
Nevada	-	-	-	-	-	-	-
Pacific#	58.4	1,712.7	45.0	1,245.4	4,975.9	11,595.8	533.2
Washington	15.3	518.1	11.9	396.3	1,412.0	3,424.9	145.2
Oregon	8.0	271.0	6.2	202.9	985.9	2,115.1	58.8
California	34.8	917.1	26.7	642.1	2,558.6	6,013.1	328.0
Hawaii	0.3	6.5	0.2	4.1	19.4	42.7	1.2
Alaska	(D)	(D)	(D)	(D)	(D)	(D)	(D)
TOTAL REPORTED	599.8	16,045.3	456.3	11,047.4	43,800.6	97,444.5	5,960.6
TOTAL U.S.A.	602.6	16,112.8	458.4	11,296.9	43,924.5	97,853.2	6,084.4

SOURCE: Annual Survey of Manufacturers, U.S. Department of Commerce - Statistics for Divisions and States - 1986.
(D) - Data withheld to avoid disclosure of individual company data. # - Total Reported.
NOTE: Each state has at least one establishment in the Paper and Allied Products Industry. - No Data Reported.

SECTION III

INPUTS AND RELATED DATA

This section presents data on inputs of labor, pulpwood, wood pulp, waste paper and energy required to manufacture paper and paperboard. Data on labor productivity and expenditures on new plant and equipment are also shown, along with separate data on capital equipment expenditures for protection of the environment and for research and development. Also included are tables on total and market wood pulp production, by grade, and on fibrous material consumption at paper and paperboard mills.

The pulp, paper and paperboard energy use patterns have stabilized since 1985. During 1986-1988 the industry drew an average of 56.6% of its fuel requirements from self-generated and waste fuels, with year-to-year deviations from this average measured in tenths of a percentage point.

Natural gas and coal continue to be the major purchased fuels, each accounting for 14% of total energy consumption in 1988. Purchased electricity, which had reached 6.5% of the total energy used in 1986, dropped to 6.1% in 1987 but rose back to 6.7% in 1988. See also Chart 13.

The industry continued to improve its energy efficiency in 1988. Energy use per ton of production of paper, paperboard plus market pulp totalled 27.3 million BTU's per ton, a 3.2% reduction from the energy required per ton in 1987 and a decrease of nearly 20% from 1972's unit energy consumption.

The paper industry's use of waste paper as a fibrous raw material continued to increase in 1988 on both a volume and relative use basis. The volume moved to a record 19,560,000 tons and the utilization rate (consumption of waste paper at paper and board mills divided by production at these mills) advanced to 25.1%.

Total waste paper collection has also been stimulated by rapid growth in exports. See also Chart 10 of Section I. 1988 waste paper exports totaled 5,640,000 tons, a 27.5% increase over the 1987 total. The 25.5 million tons of waste paper collected in 1988 represented 29.9% of the industry's total new supply of paper and paperboard.

Corrugated continues to account for the largest part of total waste paper collection, with the 1988 total amounting to 47% of all waste paper collected. Old newspapers accounted for about 18% of the total, with the other grades in the 9% to 13% range. Charts 17 and 18 compare the changes in fibrous material consumption in 1978 and 1988.

The paper industry has been changing its use patterns of the various grades of wood pulp. Bleached kraft wood pulp still

dominates, with unbleached kraft wood pulp a close second. However, the rate of growth of unbleached kraft wood pulp has slowed considerably during the past five years, with usage going from 38.0% of the wood pulp total in 1983 to 36.0% in 1988.

In relative terms, the fastest growth has been evident in thermomechanical (TMP) pulp. The totals shown in these tables include all types of TMP. In 1988, TMP accounted for about 4.8% of total wood pulp used in the production of paper and board, compared to 3.2% in 1983 and 1.1% in 1979.

The industry also continues to improve its labor productivity. Employment at pulp, paper and board mills in 1988 was only 0.25% above its 1987 total, compared to a 3.0% increase in the production of paper, board and market wood pulp. The 1988 ratio of production to employment amounted to 353 tons, compared to the 1978 ratio of 251 tons.

The Bureau of Labor Statistics publishes data on output per employee manhour, based on an output total that sums the value-weighted totals for each grade produced. In their most recent report, which showed data through 1987, the BLS revised its output per manhour estimated of the previous two years upward by several percentage points. API estimates that the ratio rose 3.1% from 1987 to 1988, to a level 48% above its 1978 average, representing an average growth of 3.5% per year. The rising trend in output per employee for the entire 1949-1988 period is highlighted in Chart 14.

The increase in output per employee hour largely reflected the industry's sizable expenditures on new plant and equipment. Bureau of Census data on such expenditures by paper and allied products companies put the 1988 total at $11.23 billion, 25% above the 1987 total, and estimated that expenditures would rise to $15 billion in 1989. A significant part of these outlays are directed at cost containment and other projects that improve productivity without necessarily increasing capacity.

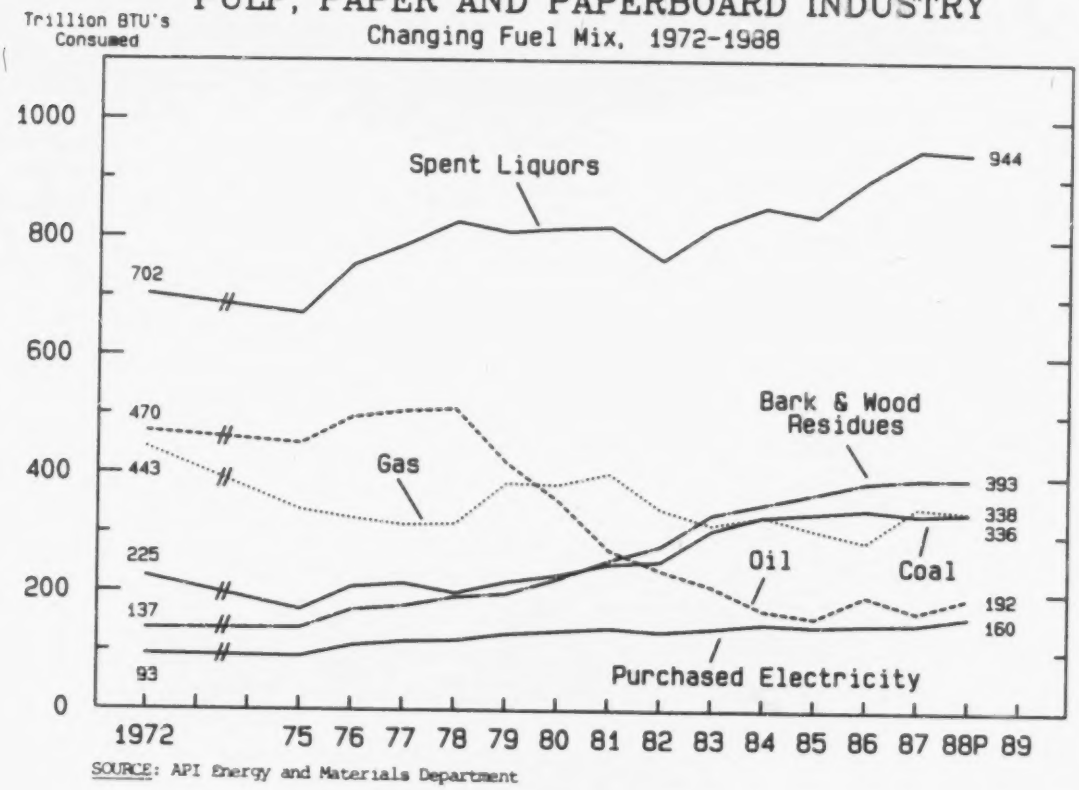
This section also includes a table showing recently-released 1987 data on the nation's commercial forests by the Forest Service of the Department of Agriculture. The total commercial forest land in 1987 was reported at 483 million acres, unchanged from the 482 million acres in 1977. Forest industry companies maintained their 14% share of the total commercial forest lands.

For most regions and most species forest growth continues to exceed removals. The ratio of hardwood growth to removals was 1.9 to 1, with all regions showing growth in excess of removals. However, the ratio of growth to removals of softwoods was 1.13 to 1, with growth equivalent to 99% of removals in the South Central region and to 89% in the Pacific Northwest. The western forests consist largely of old growth trees and growth in newly reseeded acres would be less than removals even if the total forest acreage is maintained.

Chart 13

PULP, PAPER AND PAPERBOARD INDUSTRY

Changing Fuel Mix, 1972-1988



SOURCE: API Energy and Materials Department

Chart 14

PULP, PAPER AND BOARD INDUSTRY

ALL EMPLOYEES-OUTPUT PER MANHOUR

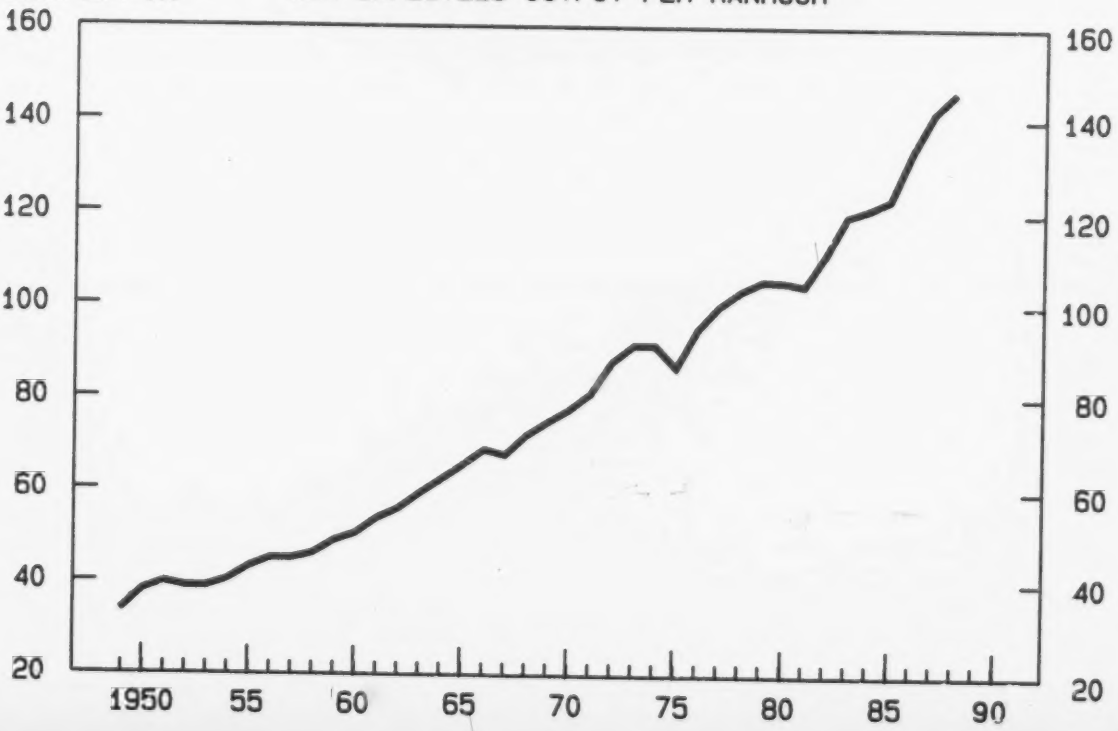


TABLE XVII

UNITED STATES

PULP, PAPER AND PAPERBOARD INDUSTRY

ESTIMATED FUEL AND ENERGY USE

1972, 1984 - 1988

		1972*			1984*			1985*		
SOURCE	Units	Estimated Use	Billion BTU'S	% of Total+	Estimated Use	Billion BTU's	% of Total+	Estimated Use	Billion BTU's	% of Total
Purchased Electricity	MM KWH	27,559.5	93,698.4	4.4	43,287.8	147,316.3	6.6	42,134.4	143,390.3	6.6
Purchased Steam	MM lbs	19,548.3	22,613.0	1.1	17,657.5	19,983.1	0.9	16,276.4	18,334.9	0.8
Coal	M Tons	9,033.6	224,737.1	10.7	13,285.5	328,633.3	14.8	13,545.8	335,103.7	15.3
Residual Fuel Oil	M 42 gal BBLs	71,121.2	447,381.5	21.2	25,809.6	162,565.2	7.3	23,732.8	149,537.7	6.8
Distillate Fuel Oil	M 42 gal BBLs	3,698.9	22,020.9	1.0	1,189.6	7,088.1	0.3	1,399.7	8,341.3	0.4
Liquid Propane Gas	M gal	28,566.6	2,628.9	0.1	33,823.8	3,107.0	0.1	36,726.5	3,372.7	0.2
Natural Gas	MMCF	435,459.9	443,916.3	21.1	323,707.5	329,226.5	14.8	300,780.2	305,737.8	14.0
Other Purchased Energy			1,634.0	0.1		3,385.0	0.2		2,946.2	0.1
Energy Sold			(-13,125.0)			(29,747.9)			(24,278.3)	
Total Purchased Fossil Fuel and Energy			1,245,505.1	59.7		976,556.6	45.0		942,486.3	44.2
Hogged Fuel (50% Moisture Content)	M Tons	5,191.2	42,103.2	2.0	26,980.7	227,679.7	10.2	28,869.4	245,735.8	11.2
Bark (50% Moisture Content)	M Tons	10,348.2	94,428.9	4.5	14,098.8	123,135.1	5.5	14,268.2	122,465.8	5.6
Spent Liquor (Solids)	M Tons	55,175.5	648,393.4	33.3	71,152.9	851,670.4	38.3	69,714.1	837,069.2	38.3
Self-Generated Hydroelectric Power	MM KWH	2,696.4	9,171.3	0.4	2,917.3	10,140.9	0.5	2,457.4	8,845.2	0.4
Other Self-Generated Energy			2,977.4	0.1		10,662.0	0.5		7,514.4	0.3
Total Self-Generated & Residue Fuels			847,074.2	40.3		1,223,288.3	55.0		1,221,630.4	55.8
Total Energy			2,092,579.3	100.0		2,199,844.9	100.0		2,164,116.7	100.0
Total Production	M Tons		65,036.4							

* Based on a sample of 90.1% of total dried pulp, paper and paperboard for 1972, 93.6% for 1984, and 93.9% for 1985.
\+ Determined by using "Total Energy" + "Energy Sold" as a denominator.

SOURCE: Energy and Materials Department; Pulp, Materials and Technology Group; American Paper Institute.

TABLE XVII Cont.)

UNITED STATES

PULP, PAPER AND PAPERBOARD INDUSTRY

ESTIMATED FUEL AND ENERGY USE

1972, 1987 - 1988

		1986*			1987*R			1988*		
SOURCE	Units	Estimated Use	Billion BTU's	% of Total+	Estimated Use	Billion BTU's	% of Total+	Estimated Use	Billion BTU's	% of Total+
Purchased Electricity	MM KWH	43,026.5	146,392.0	6.4	43,468.5	147,838.8	6.1	47,379.8	161,164.5	6.7
Purchased Steam	MM lbs	17,008.4	18,692.2	0.8	14,081.1	17,364.0	0.7	19,387.6	21,388.2	0.9
Coal	M Tons	13,791.1	340,969.1	14.9	13,432.0	335,087.0	13.9	13,518.6	338,192.3	14.1
Residual Fuel Oil	M 42 gal BBLs	31,142.2	187,078.4	8.2	25,393.4	159,818.4	6.6	28,370.0	178,507.1	7.4
Distillate Fuel Oil	M 42 gal BBLs	1,331.0	7,929.3	0.3	1,423.6	8,499.8	0.4	1,758.6	10,496.2	0.4
Liquid Propane Gas	M gal	31,197.8	2,910.3	0.1	29,806.6	2,737.3	0.1	29,479.8	2,707.6	0.1
Natural Gas	MMCF	280,538.7	285,619.4	12.5	338,602.4	345,437.7	14.4	333,294.9	339,429.3	14.1
Other Purchased Energy			3,203.3	0.1		24,823.7	1.0		2,270.1	0.1
Energy Sold			(-29,483.7)			(-35,386.5)			(-39,868.7)	
Total Purchased Fossil Fuel and Energy			963,310.3	43.3		1,006,220.2	43.2		1,014,286.6	43.8
Hogged Fuel (50% Moisture Content)	M Tons	30,095.2	254,846.1	11.1	30,961.7	258,089.4	10.7	31,987.6	267,585.1	11.1
Bark (50% Moisture Content)	M Tons	15,375.9	132,441.7	5.8	16,779.3	134,869.3	5.6	14,386.2	123,915.2	5.2
Spent Liquor (Solids)	M Tons	74,528.1	897,406.4	39.1	76,918.4	949,556.5	39.6	75,675.3	935,121.9	38.9
Self-Generated Hydroelectric Power	MM KWH	2,664.3	9,064.1	0.4	3,448.0	11,662.2	0.5	3,398.1	11,558.3	0.5
Other Self-Generated Energy			7,322.7	0.3		10,177.4	0.4		11,965.5	0.5
Total Self-Generated & Residue Fuels			1,301,081.0	56.7		1,364,354.8	56.8		1,350,146.0	56.2
Total Energy			2,264,391.3	100.0		2,370,575.0	100.0		2,364,432.6	100.0
Total Production	M Tons					86,489.3			88,830.0	

* Based on a sample of 92.0% of production of total dried pulp, paper and paperboard for 1988, 91.3% for 1987, and 93.4% for 1986.
\+ Determined by using "Total Energy" + "Energy Sold" as a denominator.
R Revised

SOURCE: Energy and Materials Department; Pulp, Materials and Technology Group; American Paper Institute.

TABLE XVIII

UNITED STATES

RECYCLABLE PAPER UTILIZATION AND RECOVERY

1970 - 1988

(Thousands of Tons)

YEAR	Paper and Board Production	New Supply Paper and Board	Recyclable Paper Consumption at Paper & Board Mills	Recyclable Paper Utilization Rate	Recyclable Paper for Molded Pulp, Insulation and other Uses	Exports	Imports	Total Recyclable Paper Recovered	Recyclable Paper Recovery Rate
1970	51,671	55,969	11,803	22.8%	418	408	(67)	12,562	22.4%
1971	53,163	57,450	12,106	22.8%	442	419	(68)	12,899	22.4%
1972	57,434	62,040	12,925	22.5%	447	415	(88)	13,699	22.1%
1973	59,900	65,004	14,094	23.5%	499	683	(87)	15,189	23.4%
1974	59,040	63,308	13,982	23.6%	489	1,307	(89)	15,689	24.8%
1975	50,976	54,113	11,748	23.0%	535	861	(72)	13,072	24.2%
1976	58,329	62,015	13,622	23.3%	630	1,273	(106)	15,419	24.9%
1977	60,040	64,241	14,058	23.4%	870	1,512	(92)	16,348	25.4%
1978	62,047	67,787	14,760	23.7%	502	1,599	(70)	16,791	24.8%
1979	64,345	69,796	15,361	23.8%	509	2,233	(78)	18,025	25.8%
1980	63,536	67,102	14,922	23.4%	473	2,664	(87)	17,972	26.8%
1981R	64,259	67,957	15,037	23.4%	480	2,213	(79)	17,650	26.0%
1982R	60,962	64,740	14,433	23.7%	487	2,127	(74)	16,973	26.2%
1983R	66,764	71,183	15,638	23.4%	484	2,573	(100)	18,595	26.1%
1984R	70,268	76,956	16,724	23.8%	460	3,235	(110)	20,309	26.4%
1985R	68,658	76,109	16,371	23.8%	478	3,286	(87)	20,048	26.3%
1986R	72,475	79,724	17,935	24.7%	493	3,749	(99)	22,078	27.7%
1987R	75,908	83,441	18,694	24.6%	507	4,422	(127)	23,496	28.2%
1988P	77,993	85,412	19,560	25.1%	509	5,640	(161)	25,548	29.9%

Paper and Board Production includes all grades of paper, paperboard, wet machine board, construction paper and board, excluding hard pressed board.

New Supply equals production plus imports less exports, excluding hard pressed board. Imports and exports include paper and paperboard converted products.

Utilization Rate is the ratio of recyclable paper consumption to total production of paper and board.

Recovery Rate is the ratio of recyclable paper collected to new supply of paper and paperboard.

Total Recyclable Paper Recovered is the sum of Recyclable Paper Consumption at Paper and Board Mills, other uses and exports less imports.

P - Preliminary

R - Revised

TABLE XIX

UNITED STATES

RECYCLABLE PAPER RECOVERY

1980-1988

(Thousands of Tons)

GRADE AND YEAR	Consumption at Paper and Board Mills	Consumption for Molded Pulp, Insulation and Other Uses	Exports	Sub Total	Imports	Total
Corrugated						
1980	6,866	-	1,209	8,075	(13)	8,062
1981	6,910	-	991	7,901	(12)	7,889
1982	6,770	-	887	7,657	(11)	7,646
1983	7,443	-	993	8,436	(14)	8,422
1984	7,972	-	1,261	9,233	(17)	9,216
1985	7,899	-	1,311	9,210	(5)	9,205
1986	8,634	-	1,530	10,164	(7)	10,157
1987R	9,177	-	1,922	11,099	(13)	11,086
1988P	9,747	-	2,277	12,024	(12)	12,012
Newsprint						
1980	2,391	473	425	3,289	(10)	3,279
1981	2,372	488	425	3,285	(9)	3,276
1982	2,486	489	439	3,414	(12)	3,402
1983	2,508	485	461	3,454	(18)	3,436
1984	2,735	460	539	3,734	(15)	3,719
1985R	2,696	479	626	3,801	(29)	3,772
1986	2,924	493	766	4,183	(31)	4,152
1987R	2,936	507	870	4,313	(30)	4,283
1988P	3,018	509	1,009	4,536	(30)	4,506
Mixed						
1980	2,268	-	649	2,917	(55)	2,862
1981	2,233	-	474	2,707	(50)	2,657
1982	1,707	-	497	2,204	(45)	2,159
1983	1,908	-	705	2,613	(62)	2,551
1984	1,975	-	886	2,860	(69)	2,792
1985	1,902	-	880	2,781	(44)	2,738
1986	2,045	-	694	2,739	(43)	2,696
1987R	2,116	-	738	2,854	(65)	2,789
1988P	2,180	-	885	3,065	(96)	2,969
Pulp Substitutes						
1980	2,254	-	205	2,459	(9)	2,450
1981	2,307	-	192	2,499	(8)	2,491
1982	2,247	-	164	2,411	(1)	2,410
1983	2,456	-	190	2,646	(5)	2,641
1984	2,673	-	252	2,926	(6)	2,920
1985	2,494	-	179	2,673	(3)	2,670
1986R	2,761	-	312	3,074	(3)	3,071
1987R	2,903	-	366	3,269	(2)	3,267
1988P	3,000	-	628	3,528	(3)	3,525
High Grade Deinking						
1980	1,142	-	176	1,318	(*)	1,318
1981	1,216	-	130	1,346	(*)	1,346
1982	1,224	-	140	1,364	(6)	1,358
1983	1,323	-	225	1,548	(1)	1,547
1984	1,369	-	297	1,666	(3)	1,663
1985	1,380	-	290	1,671	(6)	1,664
1986	1,570	-	447	2,017	(16)	2,001
1987R	1,563	-	526	2,089	(18)	2,071
1988P	1,615	-	842	2,457	(19)	2,438
Total All Grades						
1980	14,922	473	2,664	18,059	(87)	17,972
1981	15,037	488	2,213	17,738	(79)	17,659
1982	14,433	489	2,127	17,049	(74)	16,975
1983	15,638	485	2,573	18,696	(100)	18,596
1984	16,724	460	3,235	20,419	(110)	20,309
1985R	16,371	479	3,287	20,136	(87)	20,049
1986	17,935	493	3,749	22,177	(100)	22,077
1987R	18,694	507	4,422	23,623	(127)	23,496
1988P	19,560	509	5,640	25,709	(161)	25,548

SOURCE: 1980-1988 API Capacity Surveys
1988 API Paper Recycling Division

* Less than 500 tons R = Revised P = Preliminary - = Zero

TABLE XXA

UNITED STATES PRODUCTION OF WOOD PULP

1976 - 1988

(000 Short Tons)

	1976R	1977R	1978	1979	1980	1981	1982	1983	1984	1985	1986R	1987R	1988
WOOD PULP, TOTAL 1/	46,505	47,979	48,320	50,836	52,229	53,39?	50,379	53,504	56,521	54,957	57,802	60,239	61,850
Total API Grades 2/	45,385	46,648	46,888	49,366	50,734	52,042	49,334	52,454	55,471	54,147	57,002	59,549	61,160
Sp. Alpha & Dissolving Grades	1,485	1,465	1,411	1,497	1,508	1,353	1,092	1,261	1,206	1,174	1,257	1,311	1,367
Paper and Board Grades	45,020	46,513	46,908	49,340	50,721	52,045	49,287	52,242	55,315	53,783	56,545	58,928	60,483
API Paper & Board Grades	43,900	45,184	45,476	47,868	49,226	50,689	48,242	51,192	54,264	52,973	55,745	58,238	59,793
Total Sulfite	2,169	2,042	1,750	1,775	1,844	1,802	1,587	1,616	1,618	1,560	1,439	1,440	1,560
Bleached Sulfite	1,750	1,653	1,420	1,379	1,459	1,403	1,242	1,306	1,359	1,364	1,275	1,269	1,365
Unbl. Sulfite	419	389	330	396	385	399	345	310	259	196	164	171	195
Total Sulfate	33,599	34,857	36,095	37,641	38,591	39,644	37,891	40,697	43,071	42,136	44,639	46,853	47,933
Bl. & Semi-Bl. 3/	15,773	16,452	17,113	18,051	19,000	20,070	19,721	21,107	22,350	22,626	24,158	25,411	26,302
Unbl. Sulfate	17,826	18,405	18,982	19,590	19,591	19,574	18,170	19,590	20,721	19,510	20,481	21,442	21,631
Total Groundwood	4,304	4,409	4,140	4,392	4,766	5,319	5,064	5,067	5,506	5,251	5,476	5,700	5,941
Stone and Refiner	4,304	4,047	3,638	3,755	3,602	3,735	3,395	3,225	3,361	3,118	3,010	2,960	3,087
Thermo-mechanical		362	502	637	1,164	1,584	1,669	1,842	2,145	2133	2,466	2,740	2,854
Semichemical	3,828	3,876	3,491	4,060	4,025	3,924	3,700	3,812	4,069	4,026	4,191	4,246	4,357
Total Other	1,120	1,330	1,432	1,470	1,495	1,355	1,045	1,050	1,050	810	800	690	690
Defib. or Exploded 4/	1,010	1,120	1,122	1,070	975	850	625	620	620	550E	540E	440E	440E
Scr., Damaged	110E	110E	110E	100E	80E	90E	20E	30E	30E	30E	30E	25E	25E
Groundwood		100E	200E	300E	440	415	400	400	400E	230E	230E	225E	225E

SOURCE: Pulp, Materials and Technology Group - API

1/ These totals are comparable to the capacity data published on Table XIII, Wood Pulp Capacity. Excludes defibrated and exploded wood pulp for hardboard.

2/ Excludes Total Other

3/ Includes Soda Pulp

4/ Estimated to exclude wood pulp for hardboard. Source of original data is Bureau of the Census. E - Estimated R - Revised

TABLE XXB

UNITED STATES PRODUCTION OF MARKET WOOD PULP

1976 - 1988

(000 Short Tons)

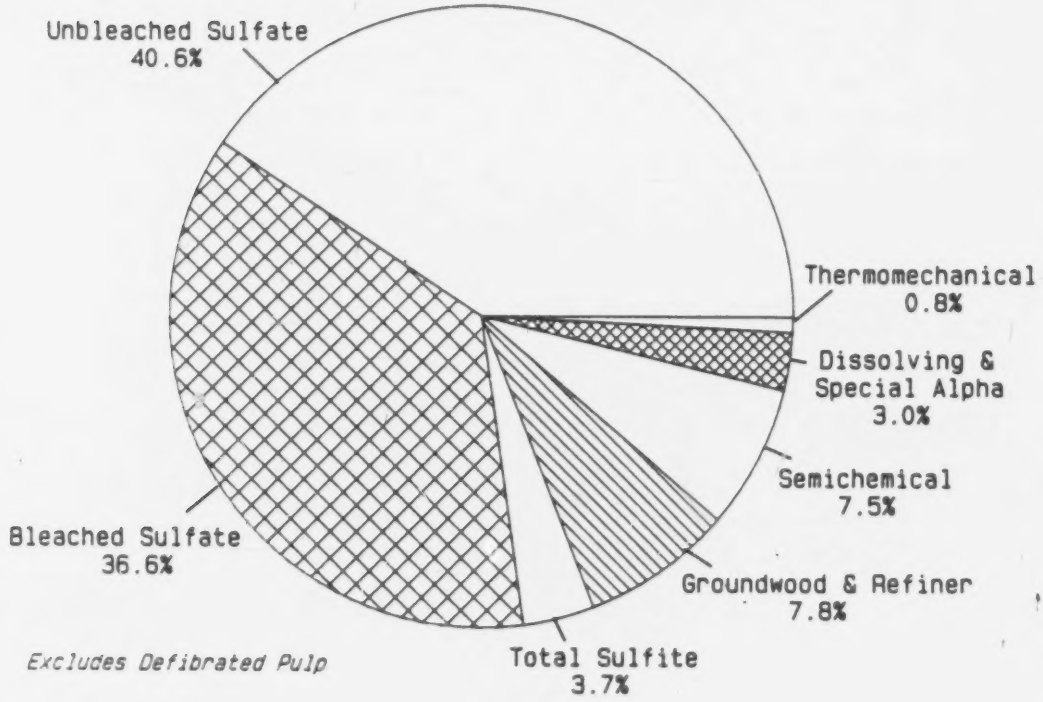
	1976	1977	1978R	1979	1980R	1981	1982	1983R	1984	1985R	1986	1987R	1988
MARKET WOOD PULP, TOTAL	4,870	4,820	5,162	5,678	6,465	6,203	5,732	6,526	6,899	6,800	7,573	8,114	8,565
Sp. Alpha & Dissolving	1,370	1,462	1,406	1,497	1,506	1,350	1,089	1,260	1,204	1,172	1,252	1,308	1,365
Paper Grade Chemical Total	3,430	3,263	3,674	4,117	4,891	4,852	4,643	5,255	5,680	5,613	6,316	6,806	7,200
Bleached Sulfite	292	219	232	248	349	263	205	230	262	223	224	245	266
Unbleached Sulfite	28	13	19	28	32	3	0	0	0	0	0	0	0
Bl. & Semi-Bl. Sulfate	2,997	2,895	3,294	3,729	4,378	4,442	4,315	4,883	5,264	5,242	5,939	6,377	6,658
Unbleached Sulfate	113	136	129	112	132	144	123	142	154	149	153	182	277
Paper Grades - Other	70	94	81	63	69	0	1	12	15	15	5	0	0

SOURCE: Pulp, Materials and Technology Group - API

Chart 15

WOOD PULP PRODUCTION—1978

PRODUCTION= 46, 888, 000 TONS

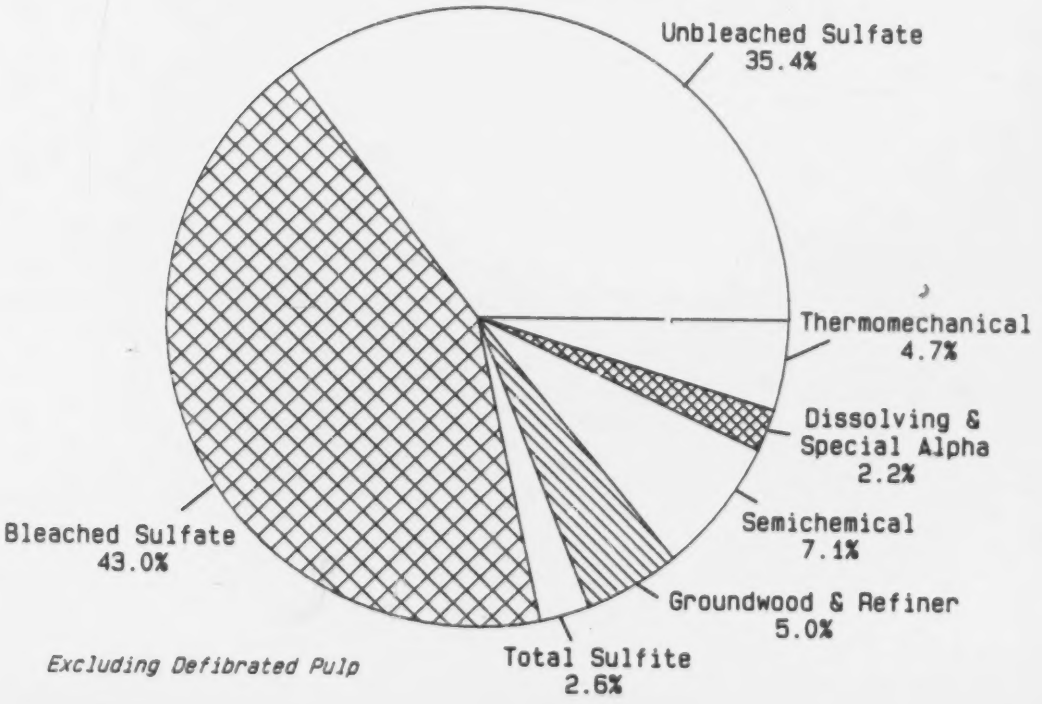


Excludes Defibrated Pulp

Chart 16

WOOD PULP PRODUCTION—1988

PRODUCTION= 61, 160, 000 TONS



Excluding Defibrated Pulp

TABLE XXI

UNITED STATES CONSUMPTION OF PULPWOOD, WOOD PULP AND OTHER FIBROUS MATERIALS

IN PAPER AND PAPERBOARD MILLS

1976 - 1988

(000 Short Tons)

	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985R	1986R	1987R	1988P
WOOD PULP, TOTAL*	**45,894**	**46,824**	**48,223**	**50,058**	**51,181**	**51,437**	**48,706**	**52,072**	**55,644**	**54,271**	**57,792**	**59,567**	**60,947**
Special Alpha and Dissolving Grades	36	44	42	42	41	38	30	37	34	34	41	34	33
Bleached Sulfite	1,985	1,884	1,587	1,726	1,664	1,591	1,500	1,592	1,660	1,615	1,659	1,779	1,836
Unbleached Sulfite	501	481	407	468	464	464	465	435	413	341	309	296	225
Bleached Sulfate	14,447	15,228	16,043	16,685)	1/								
Semi-bleached Sulfate	1,517	1,378	1,795	1,769)	18,941	18,992	19,090	20,376	21,755	22,332	23,994	24,712	25,443
Unbleached Sulfate	17,527	18,149	18,694	19,307)									
Soda	121	121	118	127)	19,707	19,887	18,252	19,803	21,092	19,599	21,108	21,812	21,926
Groundwood	5,085	4,497	4,281	4,396	4,277	4,391	3,889	3,944	3,877	3,516	3,347	3,310	3,604
Thermomechanical	-	368	441	559	1,078	1,468	1,471	1,670	2,160	2,252	2,527	2,789	2,905
Semichemical	3,546	3,521	3,609	3,860	3,948	3,666	3,364	3,565	4,003	3,993	4,237	4,370	4,510
Defibrated or Expl. E	993	1,019	1,075	1,015	955	850	625	)	)	)	)	)	
Scngs, Damaged, etc.	135	134	131	104	106	90	20	)	650)	589)	570)	465)	465
OTHER FIBROUS MAT., TOTAL	**14,364**	**14,884**	**15,584**	**16,088**	**15,524**	**15,629**	**14,882**	**16,069**	**17,089**	**16,666**	**18,248**	**19,014**	**19,891**
Recyclable Paper	13,622	14,058	14,760	15,361	14,922	15,037	14,433	15,638	16,724	16,371	17,935	18,694	19,560
All Other, incl. Straw, Rags, etc.	742	826	824	727	602	592	449	431	365	295	313	320	331
TOTAL FIBROUS MATERIALS	**60,258**	**61,708**	**63,807**	**66,146**	**66,705**	**67,066**	**63,588**	**68,141**	**72,733**	**70,967**	**75,936**	**78,579**	**80,838**
PULPWOOD, TOTAL**	**73,209**	**73,970**	**77,290**	**79,566**	**79,703**	**81,178**	**76,257**	**85,442**	**87,646**	**85,744**	**91,434**	**93,946**	**95,497**
Softwood	54,789	55,509	57,096	58,654	58,809	59,631	55,954	61,947	62,558	60,610	63,127	65,177	65,977
Hardwood	18,420	18,461	20,194	20,912	20,894	21,547	20,303	23,495	25,088	25,134	28,307	28,769	29,500
Receipts of Residues	28,165	29,653	30,380	30,015	29,402	30,590	31,152	32,755	32,072	30,496	32,754	32,899	33,186

CONSUMPTION OF WOOD PULP IN OTHER THAN PAPER AND PAPERBOARD MILLS

TOTAL WOOD PULP	**880**	**879**	**884**	**909**	**825**	**788**	**N.A.**	**N.A.**	**N.A.**	**N.A.**	**N.A.**	**N.A.**	**N.A.**
Sp.Alpha & Dis. Grades	705	702	676	701	629	609	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Other Wood Pulps	181	177	208	208	196	179	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

SOURCE: Consumption in paper and board mills of wood pulp - 1976-1986 - Bureau of the Census, Industry Division
1987-1988 American Paper Institute
Consumption of recyclable paper - American Paper Institute
Consumption of other fibrous materials - Bureau of the Census, Industry Division, 1974-1980; 1981-1988, A.P.I.
Consumption of pulpwood - American Pulpwood Association

* Includes figures for Alaska; excludes wood pulp for hard pressed board.

** Includes slabs, chips and mill waste. All pulpwood data in thousands of cords.

R - Revised E - Estimated by American Paper Institute P - Preliminary

Note: Details may not add to totals due to rounding of figures to nearest thousand.
Recyclable paper consumption - Bureau of the Census data (000 tons)
1972 - 11,703; 1973 - 12,374; 1974 - 12,098; 1975 - 10,367; 1976 - 11,874; 1977 - 12,103;
1978 - 12,586; 1979 - 13,012; 1980 - 12,583; 1981 - 12,872; 1982 - 13,563; 1983 - 14,170; 1984 - 14,944; 1985 - 14,818; 1986 - 15,419

1/ Soda included in bleached and semibleached sulfate wood pulp.

N.A. - Not Available

Chart 17

CONSUMPTION OF FIBROUS RAW MATERIALS
AT PAPER AND PAPERBOARD MILLS- 1978

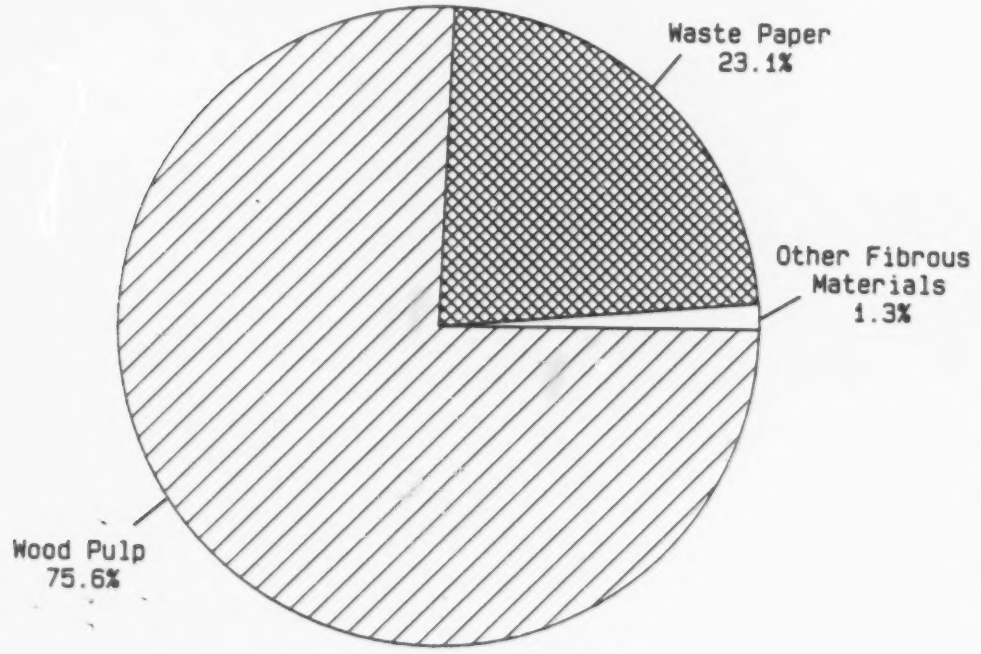


Chart 18

CONSUMPTION OF FIBROUS RAW MATERIALS
AT PAPER AND PAPERBOARD MILLS- 1988

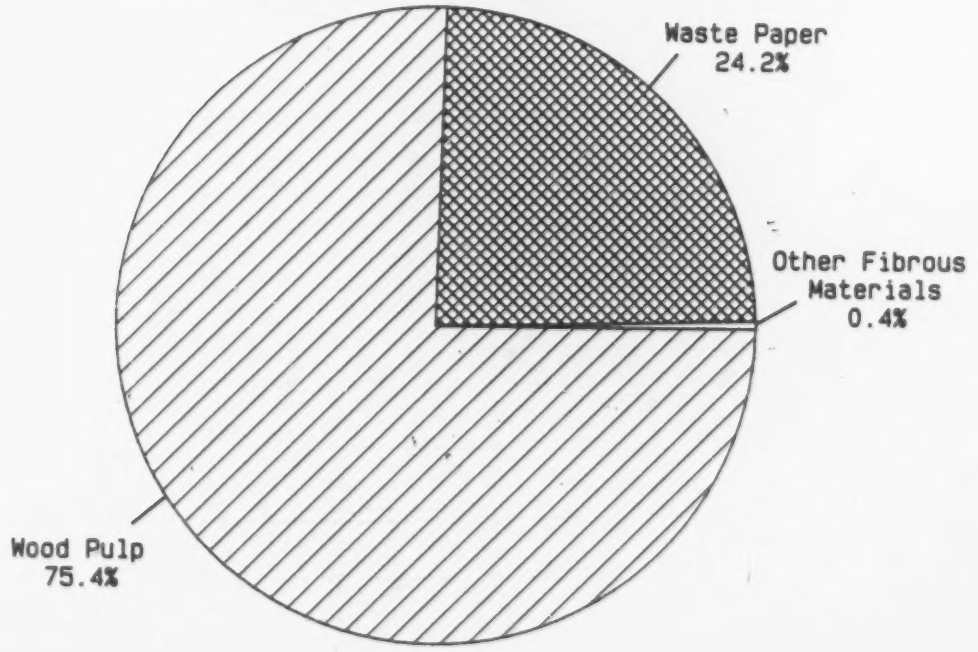


TABLE XXII

WAGE RATES AND EMPLOYMENT

PAPER AND ALLIED PRODUCTS INDUSTRY

1971 - 1988

YEAR	Average Hourly Earnings (Dollars)	Average Weekly Earnings (Dollars)	Average Weekly Hours	Employees	
				Total	Production Workers
				(Thousands)	
PAPER AND ALLIED PRODUCTS - SIC 26					
1971	3.67	154.51	42.1	681.9	521.8
1972	3.95	169.06	42.8R	688.9	531.6
1973	4.20	180.18	42.9	704.6	543.1
1974	4.53	191.17R	42.2	706.1	544.3
1975	5.01	208.42	41.6	642.0	479.7
1976	5.47	232.48	42.5	675.5	508.3
1977	5.96	255.68	42.9	691.6	518.2
1978	6.52	279.71	42.9	698.7	524.7
1979	7.13	303.74	42.6	706.8	535.6
1980	7.84	330.85	42.2	692.8	522.7
1981	8.60	365.50	42.5	688.5	518.4
1982	9.32	389.58	41.8	662.4	493.9
1983	9.93	423.02	42.6	661.2	494.5
1984	10.41	448.67	43.1	680.9	511.6
1985	10.83	466.77	43.1	677.7	512.1
1986	11.18	482.98	43.2	673.7	511.0
1987	11.43	496.06	43.4	680.1	516.3
1988	11.65	503.28	43.2	692.6	523.8
PAPER AND PULP* - SIC 261,262,266					
1971	4.05	177.80	43.9	208.8	160.6
1972	4.37	194.03	44.4	206.5	160.6
1973	4.66	208.77	44.8	208.7	162.7
1974	5.00	222.50	44.5	210.7	164.0
1975	5.54	240.44	43.4	196.8	150.3
1976	6.12	272.95	44.6	203.9	156.4
1977	6.75	302.40	44.8	205.4	157.3
1978	7.44	334.80	45.0	200.1	151.1
1979	8.26	372.53	45.1	205.9	154.7
1980	9.15	407.18	44.5	203.3	152.2
1981	10.06	449.68	44.7	203.8	153.2
1982	10.87	480.45	44.2	198.5	149.0
1983	11.70	520.65	44.5	198.0	149.0
1984	12.43	559.35	45.0	200.0	150.6
1985	13.14	591.30	45.0	197.0	149.4
1986	13.63	616.08	45.2	194.5	148.8
1987	14.01	638.86	45.6	191.8	145.9
1988	14.31	648.24	45.3	194.4	147.8
PAPER MILLS EXCEPT BUILDING PAPER - SIC 262					
1972	4.36	194.46	44.6	179.2	138.6
1973	4.64	209.26	45.1	180.8	140.1
1974	4.97	222.66	44.8	182.7	141.1
1975	5.52	240.67	43.6	170.9	129.5
1976	6.10	273.89	44.9	176.4	134.2
1977	6.70	300.83	44.9	175.7	133.6
1978	7.43	336.58	45.3	170.3	127.6
1979	8.24	374.92	45.5	176.8	131.5
1980	9.09	408.14	44.9	175.0	129.7
1981	10.00	454.00	45.4	175.6	130.9
1982	10.86	485.44	44.7	171.3	127.2
1983	11.70	524.16	44.8	173.7	128.5
1984	12.46	563.19	45.2	175.5	130.7
1985	13.21	774.11	58.6	173.5	130.5
1986	13.70	621.98	45.4	170.2	129.4
1987	14.07	644.41	45.8	168.9	127.8
1988	14.33	650.58	45.4	173.2	131.1

* Includes Building Paper and Board Mills

SOURCE: Bureau of Labor Statistics, Employment and Earnings, Tables B-2 and C-2, U.S. Department of Labor, Washington, D.C.

NOTE: Data on hours and earnings refer to Production Non-Supervisory Workers. R - Revised

TABLE XXII (Cont.)

WAGE RATES AND EMPLOYMENT

PAPER AND ALLIED PRODUCTS INDUSTRY

1971 - 1988

YEAR	Average Hourly Earnings (Dollars)	Average Weekly Earnings (Dollars)	Average Weekly Hours	Employees	
				Total	Production Workers
				(Thousands)	
PAPERBOARD - SIC 263					
1971	4.14	184.23	44.5	66.0	51.4
1972	4.47	200.70	44.9	66.0	52.6
1973	4.78	212.23	44.4	66.1	52.5
1974	5.14	225.65	43.9	65.5	52.3
1975	5.74	243.95	42.5	60.8	47.9
1976	6.40	280.32	43.8	65.6	52.2
1977	6.94	312.30	45.0	66.9	52.4
1978	7.67	340.55	44.4	67.3	52.8
1979	8.38	367.88	43.9	65.5	51.9
1980	9.28	408.32	44.0	65.1	51.0
1981	10.23	450.12	44.0	63.5	49.8
1982	11.11	474.40	42.7	60.4	46.7
1983	12.11	525.57	43.4	58.2	44.5
1984	12.99	575.46	44.3	57.2	43.8
1985	13.60	599.76	44.1	55.3	42.4
1986	13.98	619.31	44.3	53.6	40.8
1987	14.30	632.06	44.2	53.6	40.4
1988	14.49	643.36	44.4	52.9	40.2
MISCELLANEOUS CONVERTED PAPER PRODUCTS - SIC 264					
1971	3.36	136.42	40.6	190.2	139.2
1972	3.61	151.26	41.9	196.4	143.1
1973	3.85	161.32	41.9	205.4	148.8
1974	4.19	173.05	41.3	210.6	155.8
1975	4.57	185.09	40.5	190.5	133.6
1976	4.92	202.21	41.1	200.8	140.8
1977	5.33	219.60	41.2	210.2	147.5
1978	5.82	239.20	41.1	217.8	155.9
1979	6.31	259.34	41.1	221.4	163.7
1980	6.89	279.73	40.6	219.6	162.7
1981	7.58	310.02	40.9	220.1	162.0
1982	8.20	332.10	40.5	213.5	154.7
1983	8.71	361.47	41.5	214.4	155.8
1984	9.09	379.05	41.7	226.5	165.4
1985	9.33	390.93	41.9	228.5	168.0
1986	9.62	403.08	41.9	229.0	168.8
1987	9.90	416.79	42.1	232.8	172.9
1988	10.10	422.18	41.8	238.6	175.1
PAPERBOARD CONTAINERS & BOXES - SIC 265					
1971	3.40	139.06	40.9	216.8	170.6
1972	3.64	151.06	41.5	219.9	175.3
1973	3.88	160.63	41.4	224.5	179.0
1974	4.16	168.06	40.4	219.3	172.2
1975	4.59	186.35	40.6	193.9	148.0
1976	4.95	204.44	41.3	205.2	158.9
1977	5.36	224.05	41.8	209.1	161.0
1978	5.89	247.97	42.1	213.5	164.9
1979	6.37	263.08	41.3	214.0	165.4
1980	6.94	285.93	41.2	204.9	156.8
1981	7.53	312.50	41.5	201.2	153.5
1982	8.16	329.66	40.4	190.0	143.6
1983	8.60	358.62	41.7	190.6	145.1
1984	8.92	377.32	42.3	197.2	151.8
1985	9.24	389.00	42.1	196.9	152.3
1986	9.58	407.15	42.5	196.6	152.6
1987	9.77	416.20	42.6	201.8	157.1
1988	9.99	425.57	42.6	206.8	160.7

SOURCE: Bureau of Labor Statistics, Employment and Earnings, Tables B-2 & C-2, & Labstat Series Report, U.S. Dept. of Labor, Washington, DC

NOTE: Data on hours and earnings refer to Production and Non-Supervisory Workers. R - Revised

TABLE XXIII

PULP, PAPER AND BOARD MILLS

OUTPUT PER MAN-HOUR

1947 - 1988

YEAR	Output per Employee Hour		Output	Employee Hours	
	Production Workers	All Employees		Production Workers	All Employees
			-1977 = 100-		
1947	29.4	32.4	31.7	108.0	97.9
1948	N.A.	N.A.	33.0	N.A.	N.A.
1949	31.3	33.8	30.7	98.0	90.7
1950	35.0	38.1	36.7	104.8	96.3
1951	36.8	39.8	40.0	108.7	100.6
1952	36.3	38.9	38.0	104.7	97.6
1953	36.3	38.9	40.6	111.8	104.3
1954	37.9	40.4	41.4	109.1	102.5
1955	40.4	43.2	46.4	114.9	107.3
1956	42.5	45.1	49.2	115.7	109.1
1957	42.9	45.1	47.9	111.7	106.3
1958	44.1	46.2	48.1	109.1	104.2
1959	46.9	49.0	53.6	114.4	109.4
1960	48.8	50.6	54.8	112.2	108.3
1961	52.2	53.9	56.5	108.3	104.9
1962	54.2	56.0	59.5	109.8	106.3
1963	57.4	59.3	62.7	109.2	105.8
1964	60.3	62.3	66.7	110.6	107.0
1965	63.7	65.4	70.6	110.9	107.9
1966	66.9	68.7	76.1	113.8	110.8
1967	66.1	67.6	75.9	114.8	112.2
1968	69.9	71.9	81.6	116.8	113.5
1969	72.5	74.8	85.9	118.5	114.9
1970	75.8	77.5	85.1	112.2	109.8
1971	80.1	81.0	86.0	107.3	106.2
1972	86.7	87.9	92.8	107.0	105.6
1973	90.2	91.5	97.1	107.7	106.1
1974	90.5	91.5	96.7	106.8	105.7
1975	87.7	86.7	82.1	93.6	94.7
1976	95.0	95.0	95.6	100.6	100.6
1977	100.0	100.0	100.0	100.0	100.0
1978	103.7	103.2	102.4	98.7	99.2
1979	106.2	105.4	106.0	99.8	100.6
1980	106.4	105.2	105.3	99.0	100.1
1981	105.5	104.4	102.4	97.1	98.1
1982	113.7	111.3	103.1	90.7	92.6
1983	121.3	119.5	110.9	91.4	92.8
1984	123.1	121.0	115.1	93.5	95.1
1985R	126.3	123.1	115.6	91.5	93.9
1986R	135.8	133.5	122.4	90.1	91.7
1987R	144.9	141.8	129.0	89.0	91.0
1988E	148.7	146.1	132.9	89.4	90.9

SOURCE: U.S. Department of Labor - Bureau of Labor Statistics.
E - Estimated by A.P.I. R - Revised

TABLE XXIV

COMPENSATION OF EMPLOYEES IN THE PAPER AND ALLIED PRODUCTS INDUSTRY

IN THE GROSS NATIONAL PRODUCT ACCOUNTS

1948 - 1988

YEAR	COMPENSATION OF EMPLOYEES			Corporate Capital Consumption Allowance	Number of Full Time Equivalent Employees (000)	Number of Full Time & Part Time Employees (000)	Average Annual Earnings per Full Time Equivalent Employee (Dollars)
	Total	Wages and Salaries	Supplements to Wages & Salaries*				
	(Millions of Dollars)						
1948	1,577	1,501	76	122	470	470	3,194
1949	1,548	1,465	83	140	451	453	3,248
1950	1,788	1,686	102	154	482	485	3,498
1951	2,057	1,923	134	179	504	510	3,815
1952	2,143	2,004	139	204	497	504	4,032
1953	2,375	2,224	151	234	523	533	4,252
1954	2,457	2,292	165	275	522	534	4,391
1955	2,684	2,499	185	338	537	551	4,654
1956	2,919	2,712	207	370	554	570	4,895
1957	3,038	2,812	226	419	555	567	5,067
1958	3,117	2,868	249	464	542	558	5,292
1959	3,436	3,152	284	474	567	582	5,559
1960	3,596	3,288	308	496	576	592	5,708
1961	3,791	3,464	327	541	582	599	5,952
1962	4,042	3,678	364	653	598	615	6,151
1963	4,22.	3,828	394	665	605	622	6,327
1964	4,446	4,028	418	721	607	625	6,636
1965	4,696	4,250	446	734	628	640	6,768
1966	5,133	4,616	517	771	656	667	7,037
1967	5,415	4,876	539	837	672	680	7,256
1968	5,885	5,267	618	898	681	691	7,734
1969	6,496	5,768	728	955	705	713	8,182
1970	6,788	5,994	794	1,007	694	702	8,637
1971	7,039	6,172	867	1,060	669	679	9,226
1972	7,708	6,704	1,004	1,167	674	684	9,947
1973	8,466	7,290	1,176	1,249	689	700	10,581
1974	9,216	7,885	1,331	1,281	688	701	11,461
1975	9,350	7,921	1,429	1,435	628	642	12,613
1976	10,909	9,167	1,742	1,667	662	673	13,847
1977	12,192	10,182	2,010	1,889	679	692	14,996
1978	13,498	11,219	2,279	2,126	690	700	16,259
1979	14,965	12,379	2,586	2,128	697	707	17,760
1980	16,199	13,384	2,815	2,564	681	691	19,653
1981	17,658	14,541	3,117	2,842	679	687	21,409
1982	18,250	14,994	3,256	3,287	649	663	23,103
1983	19,459	15,994	3,465	3,403	650	662	24,606
1984R	21,180	17,476	3,704	4,304	666	680	26,240
1985R	21,986	18,280	3,706	5,157	667	679	27,406
1986R	23,043	19,127	3,916	5,158	664	676	28,806
1987P	24,151	20,029	4,122	N.A.	674	683	29,717
1988P	25,515	21,133	4,382	N.A.	682	693	30,987

SOURCE: Bureau of Economic Analysis, Department of Commerce, Gross National Product Accounts, Table 6

* Total Less Wages and Salaries

P - Preliminary R - Revised N.A. - Not Available

TABLE XXV

PAPER AND ALLIED PRODUCTS

CAPITAL EXPENDITURES

1947 - 1988

(Million Dollars)

YEAR	BY PAPER AND ALLIED PRODUCTS COMPANIES	AT PAPER AND ALLIED PRODUCTS ESTABLISHMENTS							
			PRIMARY MILLS					CONVERTED PLANTS	
		Total SIC 26	Total Primary 261-3,6	Pulp Mills 261	Paper Mills 262	Paperboard Mills 263	Building Paper & Board Mills 266	Total Converting 264,5	Converted Paper Products 264	Paperboard Containers & Boxes 265
1947	370	407	291	86	205		a	116	64	52
1948	383	N.A.								
1949	298	315	212	212a			a	103	52	51
1950	327	299	212	212a			a	87	51	36
1951	420	389	263	263a			a	126	61	65
1952	364	371	274	274a			a	97	61	36
1953	409	397	276	276a			a	121	74	47
1954	455	533	371	371a			a	162	162	
1955	510	556	389	389a			a	167	167	
1956	800	750	548	548a			a	202	106	96
1957	810	767	585	585a			a	182	182	
1958	570	634	417	43	259	102	13	218	82	136
1959	650	686	453	92	215	117	29b	233	79i	154
1960	770	658	442	35	246	136	25b	216	107i	109
1961	620	685	473	49	285	108	31b	212	99	113
1962	620	742	459	34	277	126	22b	283	122i	161
1963	700	708	440	39	233	160	8	270	129	141
1964	910	902	589	67	296	214	12	313	153	160
1965	1,020	1,186	826	112	496	200	18	359	180	179
1966	1,320	1,422	961	113	575	255	18	461	212	249
1967	1,490	1,585	1,122	122	581	399	20	463	226	237
1968	1,220	1,238	766	77	487	185	17	473	231	242
1969	1,620	1,421	879	133	555	158	33	543	263	280
1970	1,740	1,397	882	122	503	239	18	516	289	227
1971	1,290	1,197	755	135	374	228	18	442	262	180
1972	1,460	1,335	841	136	372	314	19	495	289	206
1973	1,990	1,530	997	119	508	344	26	531	304	227
1974	2,880	2,214	1,558	136	723	637	63	657	315	342
1975	2,930	2,718	1,959	294	832	807	26	759	412	347
1976	2,990	3,010	2,282	375	1,044	844	19	729	394	335
1977	3,480	3,295	2,367	301	1,115	934	17	928	507	421
1978	3,800	3,736	2,638	195	1,424	1,000	19	1,100	604	496
1979	5,240	4,447*	3,231	240	1,714	1,229	48	1,216	725	491
1980	6,520	5,128*	3,726	250	1,897	1,539	40	1,402	774	628
1981	6,110	5,202	3,957	521	2,435	974	27	1,245	746	499
1982	5,600	5,087	3,820	659	1,869	1,278	14	1,267	780	487
1983	5,920	4,987	3,497	916	2,239	527	15	1,290	820	470
1984	7,210	5,302	3,713	600	2,412	680	21	1,587	906	681
1985	8,590R	6,273	4,290	745	2,484	1,043	18	1,982	1,218	764
1986	8,770	6,084	4,038	875	2,153	1,000	10	2,046	1,247	799
1987	9,010	6,115P	N.A.							
1988	11,230	N.A.								

SOURCE: Paper and Allied Products Companies, Bureau of Economic Analysis
Paper and Allied Products Establishments, Bureau of the Census

NOTE: Establishment data for 1982, 1977, 1972, 1967, 1962, 1958, 1954 and 1947 from Census of Manufactures; data for other years from Survey of Manufactures.

NOTES: (a) Capital expenditures at building paper and board mills included with expenditures at pulp, paper and board mills.
(b) Data as originally published.
(i) Imputed from available data.

N.A. Not Available R - Revised
* Based on revised sampling techniques which resulted in some understatement of the total.
P Preliminary

TABLE XXVIA

PULP AND PAPER INDUSTRY ENVIRONMENTAL PROTECTION

CAPITAL EXPENDITURES THROUGH 1986 AND PLANNED THROUGH 1987

1966-1988

(Million Dollars)

YEAR	Water	Air	Solid Waste Disposal From Manufacturing	Total	Percent of Total Capital Expenditures
1966	270	129	10	409	
1967	44	31(E)	1(E)	76	
1968	49	43(E)	1(E)	93	
1969	74	52(E)	2(E)	128	
1970	120	65(E)	2(E)	187	
1971	134	66	2.5	203	
1972	205	129	5	339	38
1973	179	162	10	351	34
1974	216	296	11	523	31
1975	286	341	18	645	30
1976	319	216	29	564	29
1977	278	148	17	443	19
1978	182	149	32	363	16
1979	178	158	23	359	12
1980	140	190	38	368	9
1981	91	120	49	260	6
1982	81	214	23	318	9
1983	118	149	60	327	6
1984	62	130	34	226	6
1985	121	175	46	342	7
1986	80	109	48	237	4
1987	93	242	68	403	10
Through 1987	3,320	3,314	530	7,164	
Planned 1988	145	361	130	636	

SOURCE: National Council of the Paper Industry for Air and Stream Improvement
(E) - Estimate R - Revised

TABLE XXVIB

PAPER AND ALLIED PRODUCTS

EXPENDITURES ON

RESEARCH AND DEVELOPMENT

1966-1988

(Million Dollars)

YEAR	Total Expenditures
1966	117
1967	128
1968	144
1969	188
1970	178
1971	187
1972	189
1973	194
1974	237
1975	249
1976	313
1977	333
1978	387
1979	445
1980	495
1981	566
1982	566R
1983	552R
1984	594R
1985	576R
1986	538R
1987	613R
1988	662

SOURCE: National Science Foundation

TABLE XXVII

WOOD SUPPLY AND DEMAND

	Total	Northeast	North Central	Great Plains	Southeast	South Central	Pacific Northwest	Pacific Southwest	Rocky Mountain
	---Million Acres---								
Commercial Forest Land in U.S. January 1, 1987	483.3	80.1	74.6	3.5	84.6	110.8	54.7	17.4	57.6
Ownership									
Total Private	347.0	70.3	53.4	2.3	75.8	99.9	22.7	7.8	14.7
Forest Industry Companies	70.6	12.6	4.4	0.0	16.8	21.4	9.7	2.8	2.9
Other Private	276.4	57.7	49.0	2.3	59.0	78.4	13.0	5.1	11.8
Total Public	136.4	9.8	21.2	1.2	8.8	10.9	32.0	9.6	42.9
National Forest	85.2	2.2	7.3	0.9	4.9	6.9	19.5	8.7	34.8
Other Public	51.1	7.6	14.0	0.3	3.9	4.0	12.5	0.9	8.1
	---Million Cubic Feet---								
All Species									
Total Growth	22,526	2,948	2,564	86	5,169	5,260	3,412	1,046	2,041
Removals	16,451	1,302	1,406	42	4,167	4,531	3,342	830	829
Ratio of Growth to Removals	1.37	2.26	1.82	2.04	1.24	1.16	1.02	1.26	2.46
Softwoods									
Total Growth	12,870	702	587	47	2,972	2,877	2,887	889	1,909
Removals	11,367	521	205	26	2,836	2,906	3,239	819	817
Ratio of Growth to Removals	1.13	1.35	2.87	1.84	1.05	0.99	0.89	1.09	2.34
Hardwoods									
Total Growth	9,656	2,246	1,977	38	2,197	2,383	535	157	131
Removals	5,083	781	1,202	16	1,332	1,626	104	12	12
Total Growth	1.90	2.88	1.65	2.36	1.65	1.47	5.07	13.54	11.29

States by Region

Northeast	North Central	Great Plains	Southeast	South Central	Pacific States	Rocky Mountain States
Connecticut	Illinois	Kansas	Florida	Alabama	North	Arizona
Delaware	Indiana	Nebraska	Georgia	Arkansas	Alaska	Colorado
Maine	Iowa	North Dakota	N. Carolina	Kentucky	Oregon	Idaho
Maryland	Michigan	South Dakota	S. Carolina	Louisiana	Washington	Montana
Massachusetts	Minnesota		Virginia	Mississippi		Nevada
New Hampshire	Missouri			Oklahoma	South	New Mexico
New Jersey	Ohio			Tennessee	California	Utah
New York	Wisconsin			Texas	Hawaii	Wyoming
Pennsylvania						
Rhode Island						
Vermont						
West Virginia						

SOURCE: An Analysis of the Timber Situation in the United States: 1989-2040
Part 1: The Current Resource and Use Situation
A Technical Document Supporting the 1989 RPA Assessment
Tables 3.2; 3.28; 3.29
Forest Service, U.S. Department of Agriculture
Data on Growth, Removals and Mortality refer to 1986.

SECTION IV

FINANCIAL DATA ON THE PAPER INDUSTRY

The growth of paper, paperboard and market wood pulp production in 1988, combined with the strong market demand, brought sales of paper and allied products companies to a record high of $107 billion, 12.2% over 1987 sales. Before-tax profits amounted to 11.4% of sales. After-tax profits were 7.5% of sales, the highest level reported any time during the entire 1950-1988 period.

Other financial ratios for 1988 were equally impressive. At 18.8%, the ratio of after tax profits to net worth (stockholders equity) was also the highest attained during this 39-year period. 1988 cash flow, retained earnings and cash flow less dividends all made sizable gains over their respective 1987 levels. Balance sheet data showed the 1988 ratio of long-term debt to total capital at 38.8%

While the data in Table XXVIII provide detailed measures of the performances of paper and allied products companies in each of the years shown, their use as a time series is restricted by the many changes in the companies defined in this category over the years. These changes are shown by double, and in some cases, triple estimates of the data for a single year. At the beginning of each year the reporting agency reviews the structure of the companies and, when necessary, reclassifies them to different industries consistent with their current structure.

These changes mirror the changes in the structure of the industry itself. In the 1950's and 1960's many companies outside the paper industry, such as those in lumber and wood products, metal cans, glass containers, chemicals, consumer products and communications acquired, or built, important wood pulp, paper and paperboard capacity. In recent years this process was reversed, with much of the capacity sold to existing, or newly-formed paper companies. At present most of the companies with large pulp, paper or paperboard capacity classified outside the paper and allied products industry are in lumber and wood products, consumer products or newspaper publishing.

Other financial data reported in this section include detailed price indexes for paper and allied products as published by the Bureau of Labor Statistics and paper industry data from the Census and Surveys of Manufactures. The BLS price indexes include data for 1988 on both a commodity and product basis. However, only preliminary Census data on the total paper and allied products industry were available at the time of this publication. We will be pleased to make the Census data for 1987 that would normally be included here available to recipients of this report when they become available. Write to Economics Department, American Paper Institute, 260 Madison Avenue, New York, New York 10016.

TABLE XXVIII

PAPER AND ALLIED PRODUCTS INDUSTRY

PROFIT AND LOSS DATA, CASH INFLOW AND SELECTED BALANCE SHEET DATA

1950 - 1988

(Millions of Dollars)

YEAR	Net Sales	Net Profit Before Taxes	Net Profit Before Taxes To Net Sales (%)	Income Taxes	Net Profit After Taxes	Net Profit After Taxes To Net Sales (%)	Depreci-ation	Cash Inflow	Gross Cash Flow
1950	6,377	982	15.4	424	558	8.8	162	720	1,144
1951	8,022	1,417	17.7	858	559	6.9	183	742	1,600
1952	7,688	1,000	13.0	563	437	5.7	222	659	1,222
1953	8,371	1,005	12.0	554	450	5.4	242	692	1,246
1954	8,492	970	11.4	493	479	5.6	268	718	1,211
1955	9,847	1,206	12.2	601	604	6.1	310	914	1,515
1956	10,686	1,283	12.0	626	657	6.1	360	1,017	1,643
1957	10,420	1,020	9.8	497	521	5.0	376	897	1,394
1958[1]	10,256	899	8.8	440	460	4.5	406	866	1,306
1958[2]	10,658	987	9.3	481	506	4.7	423	929	1,410
1959	11,824	1,204	10.2	585	619	5.2	459	1,078	1,663
1960	11,764	1,135	9.6	546	587	5.0	480	1,069	1,613
1961	12,525	1,120	8.9	535	583	4.7	531	1,114	1,649
1962	13,698	1,212	8.8	584	628	4.6	583	1,211	1,795
1963	14,050	1,215	8.6	581	634	4.5	615	1,249	1,830
1964	14,771	1,312	8.9	557	754	5.1	641	1,395	1,952
1965[1]	16,224	1,488	9.2	619	869	5.4	671	1,539	2,159
1965[2]	15,217	1,271	8.4	517	753	4.9	632	1,385	1,902
1966	17,016	1,544	9.1	633	911	5.4	676	1,587	2,220
1967[2]	16,900	1,316	7.8	523	796	4.7	723	1,519	2,039
1968	18,738	1,534	8.2	645	889	4.7	780	1,669	2,314
1969	20,607	1,675	8.1	688	987	4.8	821	1,808	2,496
1970	21,069	1,211	5.7	492	719	3.4	869	1,588	2,080
1971[1]	22,224	967	4.4	455	512	2.3	926	1,438	1,893
1971[2]	- - -

TABLE XXVIII (Cont.)

PAPER AND ALLIED PRODUCTS INDUSTRY

PROFIT AND LOSS DATA, CASH INFLOW AND SELECTED BALANCE SHEET DATA

1950 - 1988

(Millions of Dollars)

YEAR	Cash Dividends	Retained Earnings	Net Cash Flow	Total Assets	Property Plant & Equipment Gross	Property Plant & Equipment Net	Net Worth	Long Term Debt	Total Capital	Net Profit After Taxes To Net Worth (%)
1950	178	380	542	5,055	N.A.	2,285	3,585	490	4,075	15.6
1951	200	359	542	6,005	N.A.	2,600	3,963	625	4,588	14.1
1952	196	241	463	6,301	4,643	2,777	4,298	784	5,082	10.1
1953	203	247	489	6,825	5,349	3,273	4,559	803	5,362	9.9
1954	227	252	520	7,085	5,694	3,367	4,963	908	5,871	9.7
1955	259	345	655	7,785	6,171	3,623	5,403	1,010	6,413	11.2
1956	273	384	744	8,492	7,028	4,213	5,772	1,286	7,058	11.4
1957	270	251	627	8,407	7,502	4,509	5,809	1,309	7,118	8.9
1958[1]	265	195	601	8,829	7,941	4,652	6,089	1,472	7,561	7.6
1958[2]	286	220	643	9,170	8,200	4,818	6,341	1,500	7,841	8.0
1959	290	329	788	9,721	8,740	5,062	6,642	1,512	8,154	9.3
1960	312	275	755	10,087	9,432	5,385	6,956	1,622	8,578	8.4
1961	328	255	786	11,051	10,447	5,857	7,612	1,719	9,331	7.6
1962	340	288	871	11,670	11,058	6,062	7,766	1,953	9,719	8.1
1963	348	286	901	11,859	11,420	6,079	7,886	1,964	9,850	8.0
1964	376	378	1,019	12,560	12,380	6,585	8,304	1,967	10,271	9.1
1965[1]	409	461	1,132	13,850	13,378	7,321	8,672	2,439	11,111	10.0
1965[2]	350	403	1,035	13,017	13,047	7,053	8,165	2,447	10,612	9.2
1966	372	539	1,215	14,621	14,662	8,131	8,710	3,104	11,814	10.5
1967[2]	391	405	1,128	15,645	15,403	8,579	9,011	3,736	12,747	8.8
1968	396	493	1,273	16,809	16,059	8,964	9,303	4,199	13,502	9.6
1969	418	569	1,390	18,794	17,169	9,529	10,212	4,267	14,479	9.7
1970	430	289	1,158	19,679	18,160	9,969	10,305	4,822	15,127	7.0
1971[1]	418	94	1,020	20,424	19,001	10,194	10,652	5,239	15,891	4.8
1971[2]	N.A.	N.A.	N.A.	19,582	18,558	9,987	10,326	5,137	15,463	N.A.
1972	377	564	1,523	19,810	18,816	9,903	10,615	4,973	15,588	8.9
1973[1]	416	1,025	2,037	21,377	19,998	10,616	11,536	5,073	15,609	12.5
1973[2]	N.A.	N.A.	N.A.	20,506	18,740	9,888	11,166	4,935	16,101	N.A.
1974[1]	519	1,668	2,700	23,696	19,093	11,524	12,958	5,346	18,304	16.8
1974[2]	530	1,754	2,817	26,088	21,856	12,012	13,602	6,457	20,059	16.8
1975	632	1,158	2,377	28,220	24,265	13,773	14,878	7,193	22,071	12.1
1976	660	1,601	2,983	32,010	27,284	15,659	17,203	7,625	24,828	13.2
1977[1]	725	1,502	3,050	34,450	29,545	17,131	18,321	8,551	26,872	12.2
1977[2]	793	1,566	3,229	37,047	31,866	18,590	19,704	9,254	28,958	12.0
1978[1]	877	1,771	3,538	40,810	34,420	20,226	21,181	10,082	31,263	12.5
1978[2]	859	1,739	3,465	40,118	33,563	19,644	20,794	9,900	30,694	12.5
1979	975	2,746	4,642	45,304	37,069	22,349	23,206	11,028	34,234	16.0
1980[1]	1,089	1,957	4,032	50,040	41,403	25,739	25,889	11,850	37,739	11.8
1980[2]	1,050	1,731	3,721	44,866	39,534	24,391	23,873	10,365	34,238	11.6
1980[3]	1,057E	1,743E	3,769	45,894	40,361	24,800	24,396	10,585	34,981	11.5
1981[1]	1,161	1,947	4,200	50,706	44,942	27,747	26,452	11,633	38,085	11.7
1981[2]	1,126	1,984	4,251	50,912	45,122	27,881	26,558	11,705	38,263	11.7
1982	1,104	355	2,735	52,915	48,235	29,711	26,705	13,149	39,854	5.5
1983[1]	1,139	1,197	3,842	56,126	51,692	32,208	27,509	13,946	41,455	8.5
1983[2]	1,137	1,191	3,798	54,821	50,957	31,826	27,219	13,565	40,784	8.5
1984	1,217	1,798	4,596	58,520	53,882	34,563	28,160	13,802	41,962	10.7
1985[1]	1,242	1,649	4,756	62,613	60,485	38,881	29,780	15,262	45,042	9.7
1985[2]	1,240	1,640	4,739	62,505	60,341	38,835	29,694	15,262	44,956	9.7
1986[1]	1,361	1,932	5,322	69,132	64,902	42,339	31,254	18,920	50,174	10.5
1986[2/4]	1,356	1,924	5,313	69,082	64,902	42,339	31,221	18,906	50,127	10.5
1987[1]	1,478	3,511	7,338	76,791	70,856	45,898	35,102	20,152	55,254	14.2
1987[2]	1,687	3,833	8,112	85,279	78,495	50,634	39,217	22,417	61,634	14.1
1988[1]	1,700	6,377	10,997	95,295	85,747	55,439	42,939	27,068	70,001	18.8
1988[2]	1,700	6,381	11,006	95,444	85,830	55,520	42,940	27,180	70,120	18.8

See Page 62 for footnotes
Net Cash Flow=Retained Earnings plus Depreciation

TABLE XXIXA

PRODUCERS PRICE INDEXES
FOR COMMODITY GROUPINGS AND INDIVIDUAL ITEMS
WOOD PULP, PAPER, PAPERBOARD AND CONVERTED PRODUCTS

1981 - 1988

(Index 1982 = 100)

	1982 BLS Price Codes	1981	1982	1983	1984	1985	1986	1987	1988
PULP, PAPER & ALLIED PRODUCTS	**09**	**94.8**	**100.0**	**103.3**	**110.3**	**113.3**	**116.1**	**121.8**	**130.4**
PULP, PAPER & PRODUCTS, exc.									
Building Paper & Board	**091**	**99.1**	**100.0**	**99.3**	**107.3**	**106.9**	**107.6**	**114.3**	**124.9**
Wood Pulp Sub-Group	**0911**	**104.8**	**100.0**	**91.5**	**104.8**	**91.4**	**94.7**	**111.5**	**136.7**
Paper Making Wood Pulp	**091102**	**107.2**	**100.0**	**89.8**	**106.3**	**88.2**	**95.6**	**120.6**	**151.6**
Sulphate, Bleached	09110211	105.5	100.0	88.7	111.0	89.8	98.1	124.3	155.1
Bleached Sulphate Hardwood Pulp	09110212	N.A.	100.0	N.A.	111.6	93.3	97.0	115.0	147.8
Other	09110223	N.A.	N.A.	N.A.	N.A.	110.6	110.0	116.3	124.5
Dissolving Wood Pulp	**091103**	**97.5**	**100.0**	**96.1**	**97.5**	**96.7**	**96.2**	**98.6**	**111.4**
Waste Paper Sub-Group	**0912**	**145.0**	**100.0**	**N.A.**	**198.2**	**122.9**	**142.6**	**181.4**	**183.6**
News	091201	132.4	N.A.	N.A.	267.8	208.1	191.3	243.9	239.9
Mixed	091202	134.1	N.A.	N.A.	173.0	147.2	129.0	153.1	168.7
Old Corrugated Boxes	091203	146.3	N.A.	N.A.	317.8	155.0	238.1	313.3	250.5
High Grade (Pulp.substit. & deink.)*	091207	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	109.6	131.9
Exports*	091208	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	125.9	128.8
Paper Sub-Group	**0913**	**97.7**	**100.0**	**98.5**	**105.8**	**106.0**	**107.0**	**111.5**	**123.2**
Paper, except Newsprint	091301	97.4	100.0	99.5	108.2	107.4	107.9	110.6	123.4
Printing Paper, Ctd. 2 Sides, Other Grades	09130116	N.A.	100.0	101.1	112.3	118.0	116.4	117.4	126.3
Printing Paper, Ctd. 1 Side	09130117	N.A.	100.0	101.6	108.2	110.3	111.2	116.1	126.5
Book Paper, Uncoated Offset	09130122	97.1	100.0	98.7	105.7	100.5	101.7	105.3	118.4
Wood Bond, Unwatermarked	09130131	98.0	100.0	100.3	103.8	101.9	102.1	103.6	117.1
Form Bond, 15 lb.	09130134	102.1	100.0	97.7	108.0	94.0	93.8	102.4	117.7
Other Form Bond	09130135	N.A.	100.0	97.8	106.6	93.2	96.0	104.3	121.3
Other Bond, Exc. Form	09130136	N.A.	100.0	100.0	107.7	106.2	107.9	111.2	126.5
Other Chemical Wood free	09130137	N.A.	100.0	99.2	112.2	100.9	103.9	110.6	131.6
25% Cotton Fiber	09130141	95.0	100.0	101.7	112.4	113.8	117.0	127.1	N.A.
Thin Paper	09130142	N.A.	100.0	100.5	105.7	108.3	111.9	117.5	N.A.
Cover & Text	09130148	N.A.	100.0	102.1	111.0	112.0	115.5	122.6	131.9
Uncoated Body Stock	09130149	N.A.	100.0	97.3	107.4	104.8	102.6	105.4	N.A.
Coated Printing Paper #3	09130113	95.2	100.0	101.7	110.6	115.6	115.3	116.9	124.2
Coated Printing Paper #5	09130115	98.5	100.0	96.7	112.1	122.4	116.1	108.3	125.6
Newsprint Class	**09130291**	**97.5**	**100.0**	**95.9**	**102.3**	**105.3**	**103.3**	**112.3**	**127.6**
Packaging and Industrial Converting	**091303**	**N.A.**	**100.0**	**99.4**	**105.4**	**104.3**	**106.9**	**116.0**	**125.7**
Wrapping Paper	09130302	N.A.	100.0	100.8	105.9	106.6	107.0	109.2	116.0
Shipping Sack, Unbleached Kraft	09130304	102.9	100.0	105.9	112.5	102.4	102.6	118.0	131.3
Other Converting, 18 lb & Over, Unbleached Kraft	09130311	N.A.	100.0	98.0	105.2	102.3	102.7	117.9	132.2
Other Converting, 18 lb. & Over, Exc. Unbleached Kraft	09130312	N.A.	100.0	99.0	103.4	103.2	104.3	109.9	114.0
Grocery Sack, Unbleached Kraft	09130307	107.5	100.0	96.8	109.1	104.8	106.5	126.0	137.7
Special Industrial Paper	**091304**	**N.A.**	**100.0**	**98.7**	**105.8**	**103.7**	**105.5**	**108.2**	**118.3**
Paperboard Sub-Group	**0914**	**101.2**	**100.0**	**98.4**	**110.4**	**107.7**	**106.6**	**118.1**	**133.2**
Corrugated Paperboard in Sheet & Rolls	09140551	100.1	100.0	97.2	107.7	109.1	104.6	117.9	130.6
Paperboard, Exc. Corrugated	091411	N.A.	N.A.	103.1	115.8	112.5	111.7	123.7	139.6
Unbleached Linerboard	09141101	N.A.	N.A.	105.0	122.4	116.5	116.3	135.3	161.3
Other Unbleached Kraft Packaging & Industrial Converting Paperboard	09141102	N.A.	N.A.	100.8	110.9	114.5	109.6	115.4	N.A.
Bleached Pckg. & Indus. Conv. Paperboard	09141103	N.A.	N.A.	100.8	107.7	108.1	106.9	107.4	113.3
Semichemical Paperboard	09141104	N.A.	N.A.	103.8	121.3	112.7	110.0	133.2	150.1
Recycled Paperboard	09141105	N.A.	N.A.	101.7	109.2	108.5	107.7	114.3	124.1
Converted Products Sub-Group	**0915**	**97.9**	**100.0**	**100.4**	**106.4**	**108.9**	**109.4**	**114.7**	**123.0**
Sanitary Paper, etc.	091501	98.2	100.0	102.1	103.4	106.6	108.1	109.0	115.0
Paper Bags, Shipping Sacks	091502	N.A.	100.0	99.0	110.5	111.9	116.9	126.0	141.1
Boxes, Shipping Containers	091503	97.7	100.0	99.5	105.7	108.8	107.8	115.4	123.5
Gummed Sealing Tape	09150431	97.5	100.0	99.0	101.9	103.6	104.2	107.9	114.1
Office Supplies	091506	95.6	100.0	101.2	107.5	106.3	106.1	108.3	114.9
Composite Cans	091507	91.4	100.0	106.5	110.7	114.7	115.1	117.1	123.5
Pressure Sensitive Products	**0916**	**N.A.**	**N.A.**	**101.2**	**105.1**	**107.1**	**108.2**	**109.4**	**115.0**
Building Paper and Board Sub-Group	**092**	**96.7**	**100.0**	**104.4**	**108.2**	**107.4**	**108.8**	**111.2**	**113.3**
Publications, Pr. Matter & Prtg.	**093**	**91.4**	**100.0**	**106.3**	**112.7**	**118.7**	**123.3**	**128.1**	**134.7**
All Commodities		**98.0**	**100.0**	**101.3**	**103.7**	**103.2**	**100.2**	**102.8**	**106.9**
Industrial Commodities		**97.4**	**100.0**	**101.1**	**103.3**	**103.7**	**100.0**	**102.6**	**106.3**

N.A. - Not Available * December 1986 = 100

SOURCE: Bureau of Labor Statistics, U.S. Department of Labor, Washington, DC

TABLE XXIXB

PRODUCERS PRICE INDEXES
FOR THE NET OUTPUT OF SELECTED INDUSTRIES AND PRODUCTS
PAPER AND ALLIED PRODUCTS

1983 - 1988

	Product Codes	Index Base	1983	1984	1985	1986	1987	1988
Paper and Allied Products	26	12/84	N.A.	100.0	98.8	99.5	104.8	113.7
Pulp Mills	2611	12/82	98.8	112.0	100.9	103.1	117.0	141.6
Primary products	2611-P	12/82	100.2	114.1	99.8	103.9	122.0	N.A
Special Alpha and Dissolving Woodpulp	2611-1	12/82	99.1	100.6	99.8	99.2	101.6	114.9
Other Pulp, Including Pulpmill Byproducts, Except Tall Oil	2611-2	12/82	100.8	120.9	99.9	106.2	132.2	163.9
Woodpulp	2611-21	12/82	100.6	120.4	97.9	105.4	133.3	167.0
Bleached Sulfate Woodpulp, Softwood	*2611-21341	12/82	98.2	120.0	97.1	106.0	134.4	167.6
Bleached Sulfate Woodpulp, Hardwood	*2611-21342	12/82	N.A.	125.3	104.8	109.0	129.2	166.0
Paper Mill Products Except Building Paper	2621	6/81	102.6	110.0	109.5	110.4	115.7	127.6
Primary Products	2621-P	6/81	102.5	110.3	109.9	110.9	116.1	N.A.
Tissue Paper Stock and Other Machine Creped Paper Stock	2621-A	6/81	105.9	110.4	112.4	115.2	119.0	126.2
Sanitary Paper Stock	*2621-A4	6/81	105.8	110.4	112.1	114.4	117.8	124.8
Newsprint	**2621-1**	**6/81**	**100.3**	**107.0**	**110.1**	**108.0**	**117.4**	**133.0**
Groundwood Paper, Uncoated	**2621-2**	**6/81**	**101.7**	**106.9**	**108.3**	**108.7**	**113.0**	**120.0**
Publication and Printing	2621-211	6/81	100.7	106.2	107.8	108.1	112.7	120.7
Clay Coated Printing and Converting Paper	**2621-3**	**6/81**	**105.5**	**117.1**	**123.6**	**121.3**	**121.0**	**133.6**
Coated Two Sides, Except Prime-Coated Body Stock for Further Coating	*2621-36	6/81	104.2	116.5	123.5	120.9	119.9	132.5
No. 3 Grade	*2621-363	6/81	107.8	117.2	122.6	122.7	123.9	131.7
No. 5 Grade	*2621-365	6/81	97.9	113.5	123.9	117.6	109.6	127.2
Other Grades	*2621-366	6/81	105.5	117.3	123.5	121.7	122.4	131.8
Book Paper, Uncoated Free Sheet	**2621-4**	**6/81**	**99.5**	**107.4**	**100.6**	**102.1**	**108.2**	**123.0**
Writing, Chemical Woodpulp	2621-421	6/81	97.9	106.3	98.1	99.5	105.7	121.6
Unwatermarked Bond, No. 4 Grade	2621-42111	6/81	102.6	106.2	104.3	104.5	106.0	119.8
Other Bond, Except Form Bond	2621-42133	6/81	102.0	109.9	108.3	110.1	113.4	N.A.
Form Bond, 15 Pound	2621-42155	6/81	96.5	106.7	92.8	92.6	101.2	116.2
Other Form Bond	*2621-42159	6/81	101.4	110.5	96.6	99.6	108.1	126.5
Other Chemical Woodpulp Writing Paper	2621-42177	6/81	94.2	106.5	95.8	98.7	105.0	124.0
Publication and Printing	2621-441	6/81	100.7	107.7	102.2	103.3	107.8	119.9
Offset	2621-44122	6/81	101.0	108.2	102.9	104.1	107.8	121.3
Other Book Printing	2621-44133	6/81	101.1	107.1	101.4	102.5	107.8	N.A.
Cover Text	2621-465	6/81	108.1	117.5	118.6	122.2	129.8	138.6
Cotton Fiber Paper and Thin Paper	**2621-6**	**6/81**	**107.9**	**115.3**	**117.6**	**121.3**	**128.8**	**N.A.**
Writing, Cotton Fiber Including Cotton Fiber Index	2621-611	6/81	108.2	119.6	121.1	124.5	135.3	N.A.
Thin Paper	2621-671	6/81	107.7	113.3	116.1	119.9	125.9	N.A.
Packaging and Industrial Converting Paper, Unbleached Kraft	**2621-7**	**6/81**	**95.2**	**105.0**	**100.2**	**102.1**	**118.4**	**129.9**
Shipping Sack	2621-731	6/81	100.9	107.3	97.7	97.9	112.6	125.3
Bag and Sack, Other Than Shipping Sack	2621-751	6/81	88.9	100.2	96.3	97.9	115.7	126.5
Other Converting, 18 Pounds and Over	2621-761	6/81	97.7	105.0	102.0	102.4	117.7	131.9
Packaging and Industrial Converting Paper, Except Unbl. Kraft	**2621-8**	**6/81**	**103.8**	**110.2**	**111.1**	**115.6**	**121.5**	**128.1**
Wrapping	2621-811	6/81	105.8	111.1	111.9	112.3	114.6	121.7
Bag and Sack, Other Than Shipping Sack	2621-851	6/81	101.1	107.7	109.2	110.2	113.7	125.7
Other Converting, 18 Pounds and Over	2621-861	6/81	99.8	104.2	104.0	105.1	110.8	115.0
Glassine, Greaseproof, and Vegetable Parchment	2621-881	6/81	105.5	114.8	115.2	127.0	135.5	142.6
Special Industrial Paper	**2621-9**	**6/81**	**102.9**	**110.3**	**108.1**	**109.9**	**112.8**	**123.3**
Paperboard Mills	2631	12/82	103.0	116.3	112.0	113.1	126.5	141.7
Primary Products	2631-P	12/82	102.9	115.2	112.2	111.3	123.1	N.A.
Unbleached Kraft Packaging and Industrial Converting Paperboard	**2631-1**	**12/82**	**104.5**	**121.2**	**116.3**	**115.6**	**133.4**	**157.3**
Unbleached Linerboard	2631-111	12/82	105.0	122.4	116.5	116.3	135.2	161.3
42 Pound Kraft Linerboard	2631-11101	12/82	105.0	122.6	119.9	117.9	138.3	159.8
Other Unbleached Linerboard	2631-11102	12/82	105.0	122.2	114.6	115.4	133.5	162.1
Bleached Packaging and Industrial Converting Paperboard	2631-2	12/82	100.8	107.7	108.1	106.9	107.4	113.3
Linerboard	2631-211	12/82	100.2	117.4	111.4	111.7	118.8	N.A.
Folding Carton-Type Board	2631-241	12/82	100.3	107.5	105.9	104.1	105.5	111.6
Other Solid Bleached Board	2631-284	12/82	99.6	113.1	113.5	113.6	119.6	121.7
Corrugating Medium (Semi-Chemical)	**2631-321**	**12/82**	**103.8**	**121.4**	**112.7**	**110.0**	**133.2**	**150.1**
Recycled Paperboard	**2631-4**	**12/82**	**101.7**	**109.2**	**108.5**	**107.7**	**114.3**	**124.1**
Linerboard (Less Than 80% Virgin Fiber)	2631-411	12/82	100.9	117.4	110.6	107.1	125.6	141.1
Corrugating Medium (Less Than 75% Virgin Fiber)	2631-421	12/82	105.2	126.2	121.8	119.4	136.8	153.6
Container Chip and Filler Board	2631-431	12/82	104.4	113.3	108.9	108.7	117.8	128.1
Folding Carton: Unlined Chipboard	2631-443	12/82	101.6	111.7	N.A.	110.7	111.5	N.A.
Folding Carton: White Lined	2631-445	12/82	N.A.	N.A.	107.9	106.7	106.7	116.2
Folding Carton: Clay-Coated	2631-446	12/82	99.3	99.3	98.6	98.1	99.4	104.9
Tube, Can and Drum Paperboard	2631-481	12/82	103.4	111.9	112.8	112.9	116.6	122.2
Other Recycled Paperboard	2631-487	12/82	101.3	104.7	105.5	106.2	112.4	126.4
Secondary Products	2631-S	12/82	103.2	122.0	111.1	121.7	141.9	N.A.
Converted Paper and Paperboard Products, Except Containers & Boxes	264	12/84	N.A.	100.0	100.3	101.8	104.9	112.0
Paperboard Containers and Boxes	265	12/84	N.A.	100.0	98.4	97.3	104.2	111.7

SOURCE: Annual Supplement to Producer Prices and Price Indexes, Table 3, Bureau of Labor Statistics, U.S. Department of Labor, Washington, D.C. N.A. - Not Available

* - Codes changed to 1988 categories

TABLE XXX

GENERAL STATISTICS FOR THE PAPER AND ALLIED PRODUCTS INDUSTRY

1987

CODE	INDUSTRY GROUP & INDUSTRY	All Employees		Production Workers			Value Added by Manufacture	Cost of Materials	Value of Industry Shipments	Capital Expenditures	End-of-Year Inventories
		Number (000)	Payroll ($ Mil.)	Number (000)	Man-Hours (Mil.)	Wages ($ Mil.)	($ Mil.)	($ Mil.)	($ Mil.)	($ Mil.)	($ Mil.)
26	PAPER AND ALLIED PRODUCTS	617.3	16,984.2	470.4	991.8	11,880.8	49,724.9	59,248.0	108,734.3	6,115.4	11,166.5

1986

CODE	INDUSTRY GROUP & INDUSTRY	All Employees		Production Workers			Value Added by Manufacture	Cost of Materials	Value of Industry Shipments	Capital Expenditures	End-of-Year Inventories
		Number (000)	Payroll ($ Mil.)	Number (000)	Man-Hours (Mil.)	Wages ($ Mil.)	($ Mil.)	($ Mil.)	($ Mil.)	($ Mil.)	($ Mil.)
26	PAPER AND ALLIED PRODUCTS	602.6	16,112.8	458.4	952.7	11,296.9	43,924.5	53,943.5	97,853.2	6,084.4	10,238.4
2611	Pulp Mills	15.3	593.7	11.8	25.6	448.7	1,590.8	2,212.7	3,837.3	874.6	437.6
2621	Paper Mills, exc. Bldg. Paper	128.8	4,405.0	99.4	210.1	3,283.3	12,032.9	13,640.9	25,705.9	2,153.3	2,512.7
2631	Paperboard Mills	51.0	1,713.9	39.2	85.3	1,281.5	4,947.2	6,133.3	11,160.3	999.6	758.8
264	Misc.Converted Paper Products	215.3	4,993.1	162.0	331.4	3,336.1	16,176.0	17,636.2	33,692.9	1,247.1	3,858.4
2641	Paper Coating and Glazing	43.4	1,148.5	29.9	63.4	679.5	3,503.0	4,189.5	7,679.7	291.7	961.9
2642	Envelopes	25.2	545.4	19.2	40.3	370.7	1,048.1	1,292.3	2,336.7	72.8	272.1
2643	Bags, except Textile Bags	49.9	1,047.4	39.3	81.6	728.6	2,818.9	3,510.4	6,305.1	269.1	783.3
2645	Die-Cut Paper and Board	17.9	328.0	14.0	26.7	218.2	788.4	1,011.6	1,794.8	31.0	235.9
2646	Pressed and Molded Pulp Goods	2.9	67.1	2.3	5.0	53.6	169.7	105.4	269.0	11.8	37.4
2647	Sanitary Paper Products	37.8	1,123.3	29.4	60.8	834.8	5,913.2	5,256.3	11,153.2	466.0	701.7
2648	Stationery Products	12.7	229.4	9.5	17.5	142.9	515.8	711.1	1,200.8	43.5	277.6
2649	Converted Paper Products, NEC	25.5	504.0	18.4	36.2	307.8	1,418.9	1,559.6	2,953.5	61.2	588.5
265	Paperboard Containers and Boxes	189.8	4,345.8	144.1	296.4	2,901.6	9,042.4	14,144.3	23,145.5	799.4	2,636.1
2651	Folding Paperboard Boxes	44.2	1,036.2	35.2	73.5	738.0	2,092.3	2,555.9	4,622.4	147.0	727.1
2652	Set-Up Paperboard Boxes	9.1	127.5	7.4	15.4	90.9	267.8	280.0	552.0	13.2	63.2
2653	Corrugated, Solid Fiber Boxes	99.2	2,366.9	71.9	146.4	1,480.0	4,737.8	8,754.1	13,465.6	433.5	1,221.4
2654	Sanitary Food Containers	24.7	540.1	19.4	40.4	390.1	1,350.3	1,576.8	2,934.2	142.6	466.2
2655	Fiber Cans,Drums,Similar Prod.	12.6	275.1	10.2	20.8	202.6	594.2	977.5	1,571.3	63.1	158.2
2661	Building Paper and Board Mills	2.4	61.3	1.9	4.0	45.7	135.2	176.1	311.2	10.4	34.8

1985

CODE	INDUSTRY GROUP & INDUSTRY	All Employees		Production Workers			Value Added by Manufacture	Cost of Materials	Value of Industry Shipments	Capital Expenditures	End-of-Year Inventories
		Number (000)	Payroll ($ Mil.)	Number (000)	Man-Hours (Mil.)	Wages ($ Mil.)	($ Mil.)	($ Mil.)	($ Mil.)	($ Mil.)	($ Mil.)
26	PAPER AND ALLIED PRODUCTS	603.9	15,346.0	461.9	943.3	10,779.5	40,422.3	53,014.8	93,392.9	6,272.7	9,894.1
2611	Pulp Mills	16.3	555.4	12.4	25.5	413.0	1,133.1	2,095.0	3,228.0	745.0	453.1
2621	Paper Mills, exc. Bldg. Paper	131.8	4,259.4	101.5	212.0	3,181.8	11,074.4	13,929.7	24,980.1	2,484.3	2,512.8
2631	Paperboard Mills	53.9	1,668.4	41.1	86.5	1,241.3	4,299.6	6,171.7	10,494.0	1,043.4	815.3
264	Misc.Converted Paper Products	210.9	4,668.8	161.3	326.3	3,148.1	14,880.1	16,722.7	31,545.0	1,218.5	3,590.5
2641	Paper Coating and Glazing	41.9	1,059.7	29.2	61.7	626.8	3,008.3	3,894.5	6,893.4	288.6	890.4
2642	Envelopes	24.0	503.4	18.6	39.0	343.4	991.6	1,164.3	2,147.4	74.1	251.0
2643	Bags, except Textile Bags	48.4	973.1	38.6	78.2	683.1	2,485.4	3,282.9	5,784.9	214.8	721.2
2645	Die-Cut Paper and Board	16.9	302.2	13.6	25.8	204.6	677.9	1,052.9	1,730.3	35.0	232.7
2646	Pressed and Molded Pulp Goods	2.9	62.6	2.3	4.7	49.2	151.6	102.7	257.5	9.2	30.8
2647	Sanitary Paper Products	38.0	1,045.7	30.0	61.1	785.7	5,630.3	5,132.2	10,751.3	486.7	683.1
2648	Stationery Products	12.4	228.3	9.7	18.4	151.5	491.0	620.7	1,101.5	48.9	242.9
2649	Converted Paper Products, NEC	26.4	493.8	19.3	37.3	303.8	1,444.1	1,472.5	2,878.7	61.2	538.4
265	Paperboard Containers and Boxes	187.5	4,106.2	142.8	286.8	2,726.2	8,827.9	13,855.4	22,697.1	763.7	2,477.5
2651	Folding Paperboard Boxes	43.5	969.9	34.6	70.5	689.5	1,960.4	2,460.5	4,413.8	153.6	687.7
2652	Set-Up Paperboard Boxes	9.2	126.8	7.7	15.1	86.3	244.0	230.4	479.0	16.8	61.9
2653	Corrugated, Solid Fiber Boxes	97.9	2,231.8	71.1	142.3	1,390.2	4,565.1	8,501.0	13,092.9	420.3	1,117.1
2654	Sanitary Food Containers	23.4	492.9	18.4	37.2	351.4	1,424.9	1,603.3	3,014.7	112.5	449.7
2655	Fiber Cans,Drums,Similar Prod.	13.5	284.8	11.0	21.8	208.8	633.5	1,060.2	1,696.7	60.5	161.1
2661	Building Paper and Board Mills	3.5	87.8	2.8	6.1	69.1	207.2	240.3	448.8	17.8	44.9

SOURCE: 1985, 1986 Survey of Manufactures
1987 Census of Manufactures

SECTION V

SUPPLEMENT

Tables XXXI and XXXII present data on production, imports, exports and new supply of wet machine board and total construction paper and board, for the years 1947 through 1988. The production data for 1982-1988 are API estimates; all the other data are drawn from Bureau of the Census reports. The 1987 production estimate for Wet Machine Board has been revised downward to reflect information collected as part of the API's Capacity Survey.

These data are included in the production and new supply totals shown in Tables I and VIII. API does not collect data on these grades.

Table XXXIII presents the data on imports used in computing the new supply totals presented in Table VIII that were taken from sources other than Bureau of the Census. These data were compiled by the Printing-Writing Paper Division, and are shown for the 1959-1988 period. In many instances, these data are the same as the Census data. The bleached bristols figures for imports include coated bleached bristols, which are included as products in the Census data of Table XI.

Table XXXIV presents similar data on exports. The data on paperboard exports for the period from 1968 were reported by the Boxboard and Fourdrinier Kraft Board Divisions as production for export. The Census data are presented in Table XII.

This section also includes the index to this report.

TABLE XXXI

WET MACHINE BOARD PRODUCTION, IMPORTS, EXPORTS AND CONSUMPTION

CENSUS DATA

1947 - 1988

(In Tons of 2,000 Pounds)

YEAR	Production	Imports	Exports	New Supply
1947	149,800	-	-	150,000
1948	142,134	-	-	142,000
1949	129,761	1,240	2,615	128,386
1950	164,611	2,136	3,266	163,481
1951	150,559	3,144	3,876	149,827
1952	140,175	2,242	3,318	139,099
1953	156,496	2,872	3,698	155,670
1954	135,910	3,349	3,420	135,839
1955	178,687	4,211	3,727	179,171
1956	146,589	3,492	3,998	146,083
1957	137,998	3,289	4,188	137,099
1958	121,103	4,566	3,884	121,785
1959	144,807	5,214	3,566	146,455
1960	174,992	4,517	2,791	176,718
1961	155,205	3,668	3,516	155,357
1962	145,625	4,905	5,312	145,218
1963	140,669	2,925	4,412	139,182
1964	147,880	10,403	4,884	153,399
1965	143,872	10,306	4,139	150,039
1966	148,098	5,537	4,811	148,824
1967	143,984	8,636	5,218	147,402
1968	154,794	11,146	4,318	161,622
1969	147,671	9,073	3,842	152,902
1970	139,055	9,308	4,614	143,749
1971	137,825	6,198	4,383	139,640
1972	147,914	4,204	5,642	146,476
1973	148,892	6,883	7,495	148,280
1974	143,862	5,899	11,287	138,474
1975	115,169	3,814	6,136	112,847
1976	129,955	6,988	6,617	130,326
1977	128,627	3,608	8,051	124,184
1978	136,337	2,614	7,554	131,397
1979	144,059	2,345	7,371	139,033
19[illegible]	137,649	2,118	8,017	131,750
1981	160,293	1,684	10,812	151,165
1982	129,000E	1,842	11,089	120,000E
1983	140,000E	3,584	11,624	132,000E
1984	140,000E	2,826	13,782	129,000E
1985	130,000E	3,270	13,380	120,000E
1986	130,000E	3,235	18,893	114,000E
1987	120,000R	3,463	17,328	106,000R
1988	120,000	4,239	11,691	113,000

SOURCE: Production - Department of Commerce, Bureau of the Census, Industry Division.
Current Industrial Reports: Pulp, Paper and Board, Annual Issues
Imports and Exports: Foreign Trade Division, Department of Commerce
E - Estimated by American Paper Institute

TABLE XXXII

CONSTRUCTION PAPER AND BOARD PRODUCTION, IMPORTS, EXPORTS AND CONSUMPTION

CENSUS DATA

1947 - 1988

(In Tons of 2,000 Pounds)

YEAR	Production	Imports	Exports	New Supply
1947	2,047,763	32,923	35,406	2,045,280
1948	2,227,217	30,695	23,277	2,234,635
1949	1,773,573	22,541	28,090	1,768,024
1950	2,263,617	30,677	24,019	2,270,275
1951	2,303,538	29,057	30,223	2,302,372
1952	2,197,763	27,545	24,343	2,200,965
1953	2,322,275	26,177	25,871	2,322,581
1954	2,436,002	21,228	28,355	2,428,875
1955	2,698,344	28,944	30,580	2,696,708
1956	2,530,407	29,429	33,650	2,526,186
1957	2,317,701	19,040	31,800	2,304,941
1958	2,446,375	23,073	25,613	2,443,825
1959	2,605,831	27,698	28,250	2,606,279
1960	2,507,763	18,090	28,137	2,497,716
1961	2,474,304	11,168	31,430	2,454,042
1962	2,508,987	16,076	27,187	2,497,876
1963	2,591,639	28,851	26,304	2,594,186
1964	2,747,582	44,359	28,539	2,763,402
1965	2,822,203	29,471	29,463	2,822,211
1966	2,649,808	25,945	33,720	2,642,033
1967	2,679,098	26,591	26,539	2,679,150
1968	2,906,986	38,856	33,957	2,911,885
1969	2,955,112	39,362	42,837	2,951,637
1970	2,812,345	48,875	32,843	2,828,377
1971	3,282,908	81,262	37,673	3,326,497
1972	3,444,014	104,385	44,335	3,504,064
1973	3,404,880	105,558	54,385	3,456,053
1974	3,140,084	88,701	66,242	3,162,543
1975	2,864,353	84,363	59,575	2,889,141
1976	3,205,761	93,155	62,206	3,238,710
1977	3,255,141	135,274	50,270	3,340,145
1978	3,339,792	329,594	63,850	3,605,536
1979	3,130,601	382,883	54,642	3,458,842
1980	2,420,112	473,679	57,662	2,836,129
1981	1,989,203	396,496	68,832	2,316,867
1982	1,533,000E	419,515	47,833	1,905,000E
1983	1,660,000E	473,667	55,746	2,078,000E
1984	1,660,000E	496,830	63,890	2,093,000E
1985	1,570,000	413,196	55,429	1,928,000E
1986	1,470,000	336,409	75,149	1,731,080
1987	1,470,000	305,985	90,024	1,686,000
1988	1,470,000	318,206	120,185	1,668,000

SOURCE: Production - Department of Commerce, Bureau of the Census, Industry Division.
Current Industrial Reports: Pulp, Paper and Board, Annual Issues
Imports and Exports: Foreign Trade Division, Department of Commerce

NOTE: Excludes Hard Pressed Board
E - Estimated by American Paper Institute

TABLE XXXIII

IMPORTS

1960 - 1988
(000 Tons)

YEAR	Newsprint	Uncoated Groundwood Paper	Coated Papers	Uncoated Free Sheet Papers	Thin Papers	Bleached Bristols	Total Printing/ Writing
1960	5,426	39.5	0	1.8	3	0.5	44.8
1961	5,382	35.9	0	3.4	3	0.5	42.8
1962	5,415	41.5	0	3.8	3	0.4	48.7
1963	5,398	44.2	0	5.3	3	0.5	53.0
1964	5,908	70.6	0	11.2	7	0.5	89.3
1965	6,349	98.1	0.9	10.7	9	0.4	119.1
1966	6,884	132.9	0.9	14.2	11	0.3	159.3
1967	6,546	147.5	1.4	34.7	13	0.5	197.1
1968	6,391	136.8	1.3	13.4	12	0.3	163.8
1969	6,724	216.9	3.3	15.4	10	0.4	246.0
1970	6,477	232.9	3.5	48.9	8	0.4	293.7
1971	6,463	244.2	4.7	108.5	7	0.5	364.9
1972	6,758	225.1	4.5	93.3	6	0.5	329.4
1973	7,236	237.1	12.3	120.2	15	1.0	385.6
1974	7,452	321.3	16.3	138.9	18	3.5	498.0
1975	5,522	264.0	4.7	86.9	9	0.7	374.3
1976	6,308	338.1	15.5	133.9	12	0.6	500.1
1977	6,339	443.2	111.6	155.3	13	17.0♦	740.1
1978	7,102	610.7	213.7	112.7	7.3	15.9	959.7
1979	7,168	694.5	188.7	141.7	14.9	16.2	1,053.8
1980	6,880	688.1	114.8	119.0	6.3	14.2	941.3
1981	6,725	650.0	39.0	119.5	12.0	7.9	827.5
1982	6,214	652.8	69.1	157.0	11.3	14.6	904.4
1983	6,725	920.4	162.4	222.8	20.3	19.7	1,345.1
1984	7,489	1,298.1	428.4	459.0	46.4	24.1	2,255.3
1985	7,724	1,386.9	496.2	379.3	23.7	22.5	2,308.6
1986	7,756	1,527.3	501.2	476.2	45.4	28.3	2,578.4
1987	8,204	1,737.2	674.4	433.0	47.6	28.0	2,920.2
1988	8,115	1,802.0	797.7	616.1	55.8	51.5	3,323.1

SOURCE: Newsprint - Canadian Shipments to U.S., CPPA; Other Country Imports to U.S., U.S. Bureau of Census
Uncoated Groundwood - Imports from Canada, CPPA
Imports from other countries, Bureau of the Census, adjusted by Printing/Writing Division of API
Uncoated Free Sheet Papers - Bureau of the Census, adjusted by Printing/Writing Division of API
Coated Papers - Bureau of the Census

NOTE: Imports used to compute new supply for Table X. ♦ Series revised to include cut size paper.

TABLE XXXIV

EXPORTS

1960 - 1988
(000 Tons)

YEAR	Uncoated Groundwood Papers	Coated Papers	Uncoated Free Sheet Papers	Thin Papers*	Cotton Fiber Papers	Bleached Bristols	Total Printing/ Writing	Unbleached Kraft Paperboard	Semichem. Paperboard	Bleached Paperboard	Recycled Paperboard
1960	8.6	26.1	38.2		15	0.8	89.0	381.0	31.0	23.0	46.0
1961	10.2	21.7	34.6		15	0.9	82.5	407.0	62.0	32.0	60.0
1962	9.1	24.3	31.3		15	1.3	80.6	445.0	44.0	33.0	55.0
1963	11.1	27.1	30.1		14	1.7	83.8	517.0	83.0	39.0	53.0
1964	13.1	36.6	34.4		16	1.9	102.3	765.0	107.0	45.0	71.0
1965	3.2	48.5	29.0		29	0	110.0	905.0	55.0	47.0	32.0
1966	3.8	49.6	30.6		32	0	115.6	1,016.0	64.0	59.0	27.0
1967	4.4	46.8	27.3		31	0	109.3	1,174.0	76.0	61.0	23.0
1968	7.9	57.1	31.9		47	0	144.0	1,380.7	94.0	108.5	12.8
1969	6.1	70.0	35.3		56	0	167.4	1,682.8	52.4	108.1	16.8
1970	7.3	75.2	41.3		58	0	181.8	1,683.4	84.3	114.4	17.3
1971	9.9	72.2	46.2		74	0	202.3	1,834.3	104.0	156.5	20.6
1972	17.6	76.2	50.6		68	0	212.4	1,887.5	111.7	217.8	14.4
1973	29.7	80.6	64.9		87	0	262.2	1,596.7	107.4	280.3	30.8
1974	53.3	98.8	100.4		106	0	358.5	1,582.7	145.5	320.2	101.0
1975	74.7	122.8	119.8		80	0	397.3	1,058.0	115.4	256.2	23.9
1976	70.6	106.7	147.3		102	0	426.6	1,247.3	119.3	306.1	36.5
1977	54.1	98.9	111.4		76	0	340.4	1,289.6	121.9	389.4	29.6
1978	58.1	73.7	84.9	26.5	12.2	10.7	266.4	1,466.3	119.2	432.9	21.6
1979	80.4	73.5	68.1	32.4	10.9	9.2	274.2	1,645.3	98.2	496.7	21.8
1980	101.0	92.8	88.3	33.8	16.6	8.8	341.3	2,379.8	322.3	549.4	82.6
1981	119.7	88.6	116.7	42.7	9.2	6.4	383.3	1,886.6	155.2	556.6	23.8
1982	55.9	81.4	70.6	27.7	6.6	4.4	246.6	1,931.4	184.9	524.7	12.7
1983	37.5	79.2	59.3	17.6	4.8	3.7	202.1	2,280.7	192.6	514.5	24.3
1984	30.2	85.6	65.5	14.0	5.0	3.0	203.3	2,086.4	149.2	478.3	17.4
1985	36.7	82.5	64.4	13.3	4.3	1.4	202.6	1,830.0	189.4	465.6	26.3
1986	40.9	78.0	50.0	14.5	4.5	2.4	190.3	2,236.6R	212.5R	568.7R	70.2R
1987	55.8	100.8	67.9	18.4	4.1	2.1	249.1	2,302.8R	192.5R	618.9	75.5R
1988	70.0	97.5	92.7	28.1	6.0	2.6	287.2	2,295.7	136.3	627.7	72.0

SOURCE: Paper Grades - Bureau of the Census; Printing/Writing Paper Division compilation
Paperboard Grades - 1959-1967 - Bureau of the Census
1968-1988 - American Paper Institute (See Table VII)

NOTE: Exports used to compute new supply for Table X. R - Revised * - 1959-1977 included in Cotton Fiber

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